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Antioch College Bulletin

SEVENTIETH YEAR
Volume 18
Number 4

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Announcement of Courses 1922-1923

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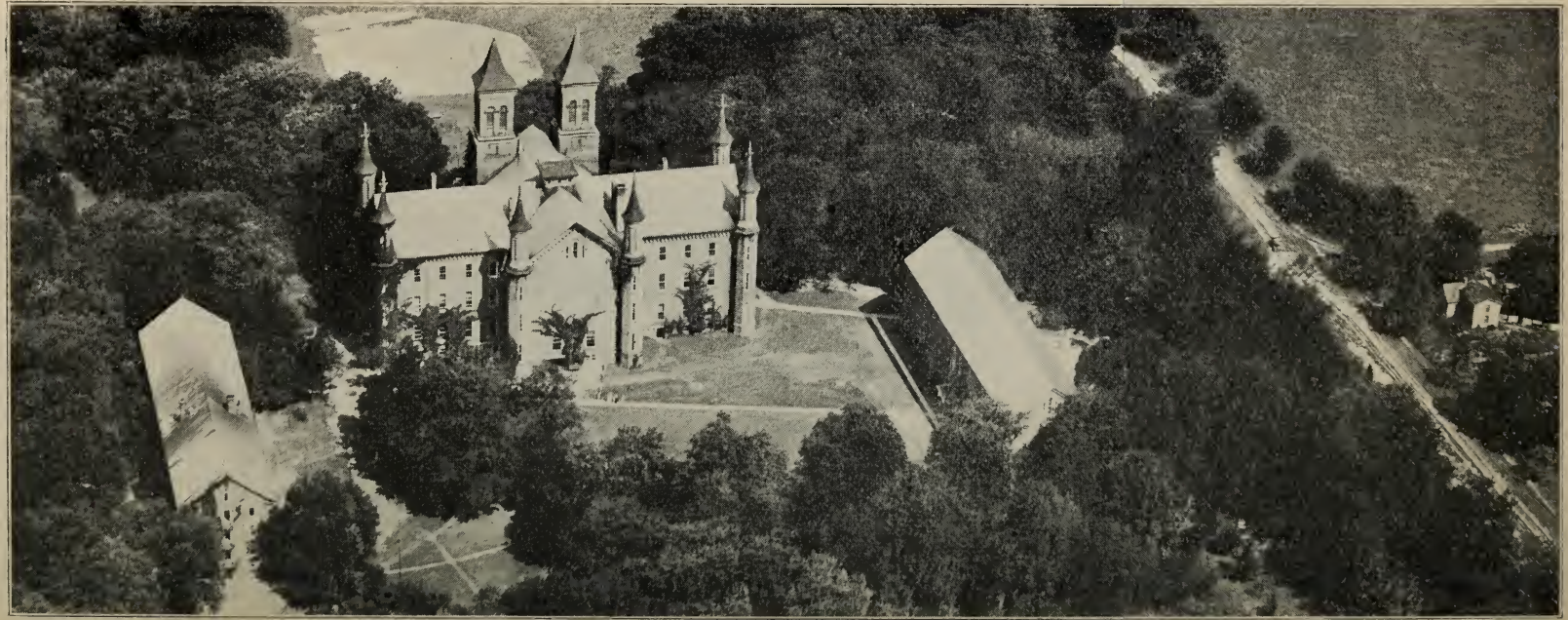
Yellow Springs, Ohio
August, 1922

THE ALDINE PUBLISHING HOUSE, XENIA, OHIO

SOME influences act more directly upon one department of human interests and some upon another. It is the high function of a college to act more or less upon all human interests and relations. A college acts upon youth, and hence its influences radiate wherever youth go, and that, in this country, is everywhere. Its responsibilities are commensurate with its influences; and, with a true man, every responsibility is a new incitement to effort.

(From the inaugural address of Horace Mann, delivered at the time of his installation as President of Antioch College in 1853.)



Women's Dormitory

Antioch Hall

Men's Dormitory

ANNOUNCEMENT *of* COURSES

ANTIOCH COLLEGE

Yellow Springs

Ohio

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UNIVERSITY OF ILLINOIS

1922-1923

ANTIOCH COLLEGE BULLETIN

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CALENDAR 1922-1923

Arranged by Divisions

Division A

First Semester

September 5 to October 7, in School
October 9 to November 11, in Industry
November 13 to December 16, in School
December 18 to December 23, Vacation
December 26 to February 3, in Industry

Second Semester

February 5 to March 10, in School
March 12 to April 14, in Industry
April 15 to April 17, Vacation
April 18 to May 19, in School
May 21 to June 23, in Industry

Division B

First Semester

September 5 to October 7, in Industry
October 9 to November 11, in School
November 13 to December 23, in Industry
December 25 to January 1, Vacation
January 2 to February 3, in School

Second Semester

February 5 to March 10, in Industry
March 12 to April 12, in School
April 13 to April 15, Vacation
April 16 to May 19, in Industry
May 21 to June 23, in School
June 23, Commencement

Holidays

November 30, Thursday, Thanksgiving Day
February 22, Wednesday, Washington's Birthday
May 30, Tuesday, Memorial Day

OFFICERS OF THE CORPORATION

PRESIDENT
Arthur E. Morgan

SECRETARY
Homer C. Corry, Springfield, Ohio

TREASURER
Miami Deposit Bank, Yellow Springs, Ohio
P. M. Stewart, President

EXECUTIVE COMMITTEE
Arthur E. Morgan, Ex-Officio Chairman
George Little, Xenia, Ohio
Homer C. Corry, Springfield, Ohio
William Chryst, Dayton, Ohio
John C. Haswell, Dayton, Ohio

BOARD OF TRUSTEES

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William Chryst, Dayton Ohio; Chief Engineer of the Dayton Engineering Laboratories Company.

Joseph P. Cotton, New York City; of the law firm of McAdoo, Cotton & Franklin.

Homer C. Corry, Springfield, Ohio; attorney and Secretary of the Board.

William M. Dawson, Yellow Springs, Ohio; Professor of German, Antioch College.

Henry S. Dennison, Framingham, Massachusetts; President of the Dennison Manufacturing Company.

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General J. Warren Keifer, Springfield, Ohio; banker and lawyer, formerly Speaker of the National House of Representatives.

C. F. Kettering, Dayton, Ohio; Vice-President and Chief Engineer of the General Motors Corporation.

George Little, Xenia, Ohio; manufacturer and banker.

Arthur E. Morgan, President of the Dayton Morgan Engineering Company and President of Antioch College.

William Mayo, Detroit, Michigan; Chief Engineer of the Ford Industries.

Gordon S. Rentschler, Hamilton, Ohio; of the manufacturing firm of Hooven, Owens & Rentschler Company.

Ellery Sedgwick, Boston, Massachusetts; Editor of the Atlantic Monthly.

Frank D. Slutz, Dayton, Ohio; Director of the Moraine Park School.

Frank A. Vanderlip, New York City; banker.

George M. Verity, Middletown, Ohio; President of the American Rolling Mills Company.

OFFICERS OF ADMINISTRATION

Arthur Ernest Morgan, President.

Philip Curtis Nash, Dean and Professor of Civil Engineering.
A. B. and M. C. E. Harvard; Professor of Civil Engineering, Northeastern College.

Ralph Edwin Boothby, Professor of Education and Director of the Antioch School.
A. B. Harvard; Headmaster St. Stephen's School, Colorado Springs, Colorado.

Harris Grow Pett, Assistant to the President.
A. B. Wisconsin; Manager Information Bureau, U. S. Shipping Board, London.

Harold Connett Washburn, Assistant to the President.
A. B. Harvard. Executive Secretary Associated Harvard Clubs; Associate Professor of English and History at the U. S. Naval Academy.

Jesse H. Horner, Accountant.
Assistant Accountant at the Miami Conservancy District.

Fressa Sample Baker, Registrar.
A. B. Kansas; M. S. Simmons; Research Fellow, Women's Educational and Industrial Union, Boston.

Olivia Thorne Cox, Bursar.

OFFICERS OF INSTRUCTION

Clyde Stewart Adams, Professor of Chemistry.
B. S. Denison; A. M. and Ph. D. Ohio State. Instructor in Chemistry, Denison, Toronto, and Ohio State.

Joseph Bartlett, Instructor in French.
A. B. Dartmouth; Presbyterian Theological Seminary. Instructor, Lees-McRae School and Westminster School for Boys.

Nathan Ansel Burgess, Instructor in Mechanical Drawing. Firm of S. H. Gowing, Architect, Boston.

Manmatha Nath Chatterjee, Professor of History.
B. Sc. Glasgow, Scotland; A. M. Clark; Calcutta; A. B. Punjab.

Mrs. Estelle Biddle Clark, Associate Professor of English.
A. B. Waynesburg; Litt. D. James Millikin.

Verral J. Craven, Lecturer in Household Economics.
B. S. Kansas State Agricultural College; Teachers' College, Columbia. Instructor in Household Economics, Moraine Park School, Dayton.

William Marcus Dawson, Professor of German.
A. B. and A. M. Antioch; Ohio State; Chicago.

Horace Bidwell English, Professor of Psychology.
A. B. Oxford, England; Ph. D. Yale. Assistant Professor of Psychology, Wellesley.

Mrs. Eudell D. Everdell, Associate Professor of Education.
A. B. Minnesota; Minnesota State Teachers' College, Moorhead. Supervisor of Teachers Training Work in Minnesota High Schools.

Leonor Field, Counselor of Women and Assistant to College Physician.
A. B. Mount Holyoke; B. S. Simmons; R. N. Massachusetts General Hospital. Assistant Director of Health Department, Jordan Marsh Company, Boston.

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Trinity College, Dublin; A. B. Ripon; Ph. D. Minnesota. Assistant Professor of Physics, Minnesota.

Horace Leonard Gardner, Director of Personnel Administration.
Massachusetts Institute of Technology. Manager of Personnel Relations, E. I. DuPont de Memours and Company; Employment Manager, Cheney Brothers, South Manchester, Conn.

Lincoln Robinson Gibbs, Professor of Literature.
A. B. Connecticut Wesleyan; A. M. Harvard. Professor of English, Pittsburgh.

Ralph Arthur Gillgus, Assistant in Personnel Administration.
Assistant Empolyment Manager, Delco Company, Dayton, Ohio.

Louis Grandgent, Director of Architecture.
A. B. Harvard; B. S. Massachusetts Institute of Technology. Firm of Grandgent and Elwell, Architects, Boston.

Henry Alvin Hoffman, Bacteriologist.
D. V. M. Kansas State Agricultural College; Research Assistant in Bacteriology, Cornell.

Iskander Hourwich, Professor of Industrial Research.
Columbia University. Assistant Engineer in charge of Power Plant Laboratory Engineering Division, U. S. Army Air Service. Editor of "U. S. Air Service Engine Hand Book."

Ondes Lamar Inman, Professor of Biology.
A. B. Indiana; M. S. Idaho; Ph.D. Harvard.
Instructor Idaho; Teaching Fellow, Harvard.

Loris M. Johnson, Instructor in English.
A. B. Oregon; A. M. Harvard.

Kirby Viglini Jones, Instructor in Engineering.
University of Colorado.

Edward Wright Keever, Lecturer on Advertising.
Geyer-Dayton Advertising Co., Dayton, Ohio.

General J. Warren Keifer, Professor Emeritus of History.
Antioch College. General in the Civil War. Speaker of the National House of Representatives, 1881-1883. Trustee of Antioch.

Mrs. Mary S. Kirkpatrick, Preceptress of the Antioch School.
Ogontz School; Butler.

Denton A. Magruder, Professor of Accounting.
Illinois; Ph.B. Chicago. Public Accountant.

Martin Andrew Nordgaard, Professor of Mathematics.
A. B. St. Olaf; A. M. Maine; Ph. D. Columbia.
Assistant Professor of Mathematics, Grinnell.
Lecturer in Mathematics, Columbia.

Charles A. Nosker, Associate Professor of Biology.
B. S. and A. M. Antioch; Chicago, Ohio State.

Austin McDowell Patterson, Professor of Chemistry.
A. B. Princeton, Ph. D. Johns Hopkins. Consulting Technical Editor, Webster's New International Dictionary. Author of Chemical German-English and French-English Dictionaries. Editor of "Chemical Abstracts."

Earl E. Prugh, Director of Physical Education and Associate Professor of Mathematics.
B. S. Ohio Wesleyan; Columbia. Football and Basketball Official for Ohio Conference and Western Conference.

Harry Melville Sayre, Instructor in Earth Science.
A. B. Ohio State.

Frank Durward Slutz, Lecturer on Education.
A. B. Mount Union. A. M. Harvard; Litt. D. Denver.
Director of Moraine Park School.

Fowler Stoddard Smith, Lecturer on Purchasing.
Purchasing Agent, Miami Conservancy District.

Allyn Coats Swinnerton, Professor of Earth Science.
A. B. Williams; Ph. D. Harvard.
Instructor in Geology, Harvard.

Mrs. Ethel Whitney Thoenen, Instructor in Education.
Michigan Agricultural College; Michigan. State Normal College; Miami.

Bessie Louise Totten, Associate Librarian.
Ph. B. Antioch.

Emily Turner, Librarian.
Pratt Institute Library School.
Acting Librarian, Connecticut College; Instructor, Pratt Institute Library School; Consulting Librarian for college, public, and private libraries.

Julia Emery Turner, Professor of Household Economics.
A. B. Vassar; A. M. Columbia.
Director of Residence and Assistant in Dietetics, Connecticut College; Director of New England Kitchen, Boston.

Stephen F. Weston, Professor of Philosophy and Sociology. Secretary of the Faculty.
A. B. and A. M. Antioch; Ph. D. Columbia.
Associate Professor of Political and Social Science, Western Reserve.

Mrs. Harriet F. Wright, Instructor in English.
A. B. Chicago; Radcliffe. Teaching Fellow.

Dorothy Parkhurst, Assistant in French.
Alliance Francaise; Institute, Munich.
Instructor in French, Bethany College.

Mariano Pardina, Assistant in Spanish.
Teachers' College, Cordoba, Argentine Republic.

COMMITTEES OF THE FACULTY

Student Activities

*Mr. Gibbs
Miss Field
Mr. Boothby
Mr. Sayre
Mr. Swinnerton

Scholarship

*Mr. English
Mr. Weston
Mr. Chatterjee
Mr. Nosker
Mr. Inman

Religious Activities

*Mr. Boothby
Mr. Gibbs
Miss Emily Turner

Athletics

*Mr. Prugh
Mr. Gardner
Mr. Inman

Dormitories and Dining Halls

*Miss Julia Turner
Miss Field
Mr. Nordgaard

Buildings and Grounds

*Mr. Grandgent
Mr. Magruder
Miss Julia Turner
Mr. Jones

Bulletins and Publicity

*Mr. Pett
Mr. Dawson
Miss Emily Turner

*Denotes chairman.

HISTORY OF ANTIOCH COLLEGE

Founded in 1853 with Horace Mann as its first president from that date until his death six years later, Antioch College was one of the first educational institutions in the United States to operate under the coeducational plan, and among the first colleges of high standing to admit men and women on an equal footing to all courses. In these early days the College was the western rendezvous for Ralph Waldo Emerson, Nathaniel Hawthorne, Edward Everett Hale, and an eminent group of other New England intellectuals.

On the death of Horace Mann, Dr. Thomas Hill became president of the College. In 1861, when the entire student body enlisted for the Civil War, the men as soldiers and the women as nurses, Dr.

Hill left Antioch and later became president of Harvard University. A large group of men and women who have been leaders in American life have been at the College either as students, teachers, or executive officers. Among these are numbered Dr. Edward Orton, the first president of Ohio State University; G. Stanley Hall, former president of Clark University; C. W. Russell, vice-president of Cornell; Ex-president Hubble, of Lincoln Memorial University; President Hooper, of Brooklyn Institute; Dr. Simeon D. Fess, congressman, lecturer, formerly president of Antioch; James K. Hosmer, historian and professor of history in the University of St. Louis; James E. Clark, for many years professor of mathematics at Yale; S. C. Derby, for more than twenty-five years professor of Latin in Ohio State University; E. W. Claypole, professor of geology in the California Institute of Technology; Dr. Frank H. Tufts, professor of physics in Columbia University; Dr. J. Y.

Bergen, the noted botanist, and Dr. Julia Thomas Irvine, formerly president of Wellesley.

In 1920, Arthur E. Morgan was elected president of Antioch College, assuming active control in 1921, when a complete re-organization took place. The College has now completed its first year under the new regime.

THE ANTIOCH PROGRAM

The Antioch program is an endeavor to prepare the student to meet the most universal and important experiences and issues in life; to give him or her the kinds of knowledge most necessary to effective living in our present complicated economic system, and upon which he may wisely base important decisions materially affecting his well being for all time. With this aim before them, the trustees of Antioch in 1921 put into operation the following plan:

1. A blending of academic study with practical, income earning experience, where feasible in the calling for which the student is preparing himself; the college program being arranged accordingly.

2. The work in industry, while primarily of educational value, in the majority of cases provides means for partial self-support.

3. The college offers liberal arts courses and a limited number of technical courses. The liberal courses for the most part deal with the fundamentals of their subjects. For students with marked ability and interest in specific fields, autonomous courses are provided; that is, for advanced work, well-planned courses are offered, with library and laboratory facilities; and occasional conferences with the heads of departments or other competent authorities for advice and guidance.

4. Allowance of credit for actual accomplishment, and not for "clock hours" spent in any given subject. The average student in the cooperative plan will require six years to complete a course of study requiring full time for four years. Students with more than average ability may shorten this time.

5. Courses are so coordinated that the college is a synthetic unit rather than an aggregation of unrelated departments, each bidding for the student's time and interest.

6. A limited number of technical courses is offered. A technical course must include the fundamentals of a liberal arts education, as it is the aim to make citizens as well as technicians. These courses aim to develop general competency, rather than highly specialized technic, and aim to make

men and women capable of supervision, administration, proprietorship, rather than simply employes working under detailed directions.

7. The college aims to eliminate the traditional cleavage between cultural standards and practical standards, and to make practical life for its students a medium of expression for cultural standards and ideals.

8. Physical fitness is essential to happiness and success. Students are required to care for and to develop their physical condition in order to remain in the institution.

9. The final measure of accomplishment for the college is the success attained in turning out students whose preparation has laid the basis for productive service, and whose primary aim is service to their communities and to their times. No paper program will accomplish this result, but only the spirit with which the college is imbued. The chief hope of the trustees is to maintain a faculty and a student body that will make this result possible, a hope which the completion of the first year of operation under the new regime has brought nearer to realization.

DETAILS OF THE PROGRAM

The Cooperative Plan—The cooperative plan of education has been successfully used for some years in engineering and technical schools, especially at the University of Cincinnati, where the work of Dean Herman Schneider has done much to develop the technic of the cooperative college program. Antioch College applies the same plan to the field of proprietorship and management, giving instruction in the fundamentals of such callings as engineering, education, machine-shop operation, farming, accounting, retail selling, manufacturing, journalism, home economics, and like pursuits.

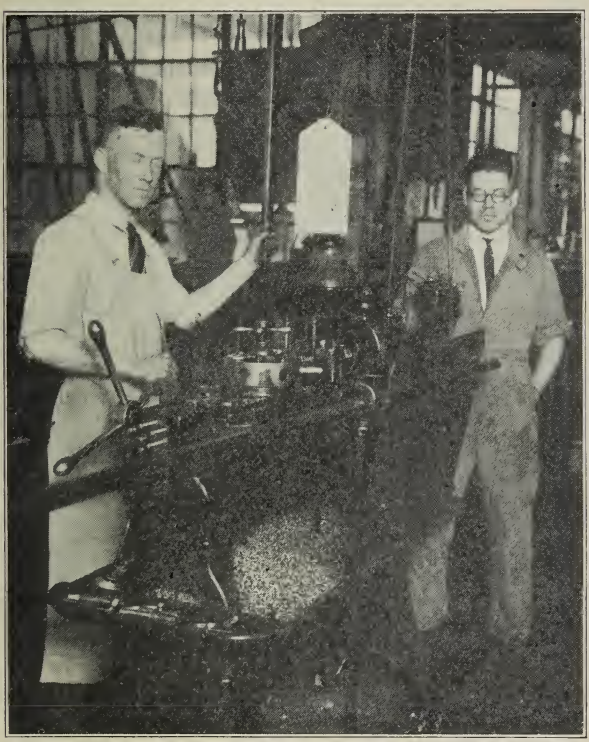
From the Point of View of the Student—Upon the entrance of a new cooperative student at Antioch, he or she is assigned to one of the two Divisions, A or B. College studies begin on September 5th for Division A and on October 9th for Division B. In industrial work, students are placed in positions conforming to their own capabilities, and as far as possible in accordance with their own wishes.

Gradual improvement in business conditions is opening a larger number of cooperative positions in the Miami Valley, and plans are under way for the establishment of industries on the campus. Students receive wages for their industrial work, very few students being placed in positions which pay less than $15.00 per week. Many earn far more

than this minimum, contingent upon individual ability. (See page 64.)

From the Point of View of the Employer—One job is filled by two students, one from each of the two divisions, working in alternate shifts of five weeks each. It has been found that this arrangement is not a serious handicap. Once the two students are broken in, the employer is assured of two competent and dependable employes for at least a year.

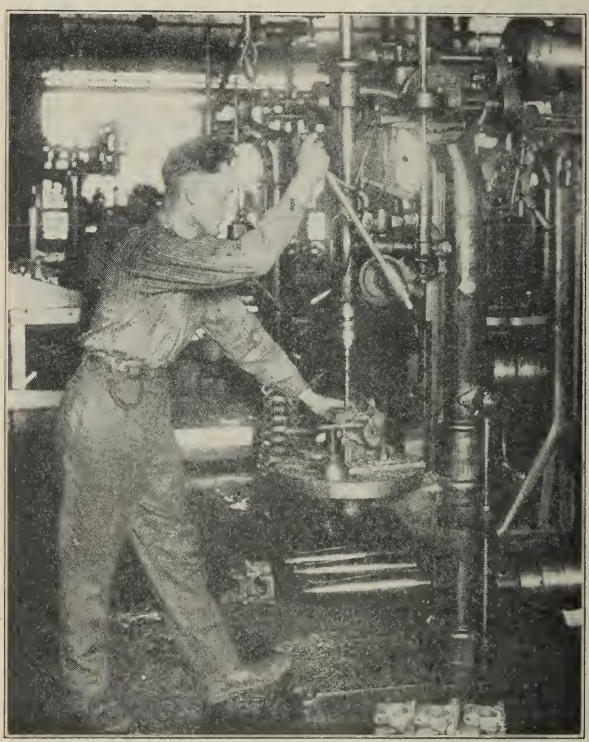
It is the desire of the College that the students shall learn the actual conditions of commercial life, that poor work brings its failures and good work its rewards. Consequently they are accorded no special privileges by their employers, who are at liberty to discontinue students or to promote them at their discretion. The first year in school is spent



largely at labor. To know how to work and to get the laborer's point of view is essential for the manager and administrator; experience in varied administrative functions and in directive responsibility will come wth later years.

Student Self-Support in Organized Industry—The Antioch program aims to cooperate with organized industry which has high productive value,

and consequently pays comparatively high wages, by dividing the student body into two groups, each group attending school half time and working half time, in alternate periods, each of five weeks. Under this arrangement students are partially self-supporting with no derangement of their college program and college life, and without detriment to their physical condition. In standard colleges many students work their way, but with comparatively few exceptions these colleges do not co-ordinate their work with the typical pursuits of the usual self-supporting student wherein the student often does his work at odd hours and in competi-



tion with unskilled and consequently poorly paid labor.

While Antioch College is located in a quiet village, it is in the heart of one of America's greatest industrial districts. Within twenty miles are several hundred highly developed technical industries, several of them the largest of their kind in the world. During the past year 130 Antioch co-operative students have been working in these industries, and places will probably be available for double that number as the need arises. Following is a list of firms employing Antioch students:

Whittaker-Glessner Co., Cincinnati, Ohio.

The Hanton Advertising Co., Cleveland, Ohio.

Ford Auto Co., Columbus, Ohio.
(Branch of Ford Factory.)

Chamber of Commerce, Dayton, Ohio.

Crawford, McGregor & Canby Co., Dayton, Ohio.
(Shoe lasts and golf sticks.)

Computing Scale Co., Dayton, Ohio.

Danis-Hunt Construction Co., Dayton, Ohio.
(Building contractors.)

Davis Sewing Machine Co., Dayton, Ohio.

Dayton Fan & Motor Co., Dayton, Ohio.

Dayton-Troy Auto Co., Dayton, Ohio.
(Ford sales and service.)

Dayton Daily News, Dayton, Ohio.

Dayton Malleable Iron Co., Dayton, Ohio.
(Foundry.)

Dayton Power & Light Co., Dayton, Ohio.

Dayton Structural Steel Co., Dayton, Ohio.

Recording Devices Co., Dayton, Ohio.

The Delco, Dayton, Ohio.
(Lighting and ignition systems.)

The Delco-Light Co., Dayton, Ohio.
(Farm lighting plants, refrigerating equipment.)

Drs. Felker & Everhardt, Dayton, Ohio.
(Physicians.)

The Duro Pump Co., Dayton, Ohio.
(Household and industrial water systems.)

The Elder & Johnston Co., Dayton, Ohio.
(Retail department store.)

Fyr-Fyter Co., Dayton, Ohio.
(Fire extinguishers.)

General Motors Research Corp., Dayton, Ohio.
(Physical and chemical research laboratories.)

Green & Green Co., Dayton, Ohio.
(Biscuit factory.)

General Printing Co., Dayton, Ohio.

Mercantile Corporation, Dayton, Ohio.
(U. S. stamped envelopes.)

Miami Conservancy District, Dayton, Ohio.
(Flood prevention.)

Moraine Park School, Dayton, Ohio.

National Cash Register Co., Dayton, Ohio.

National Home for Disabled Volunteer Soldiers, Dayton, Ohio.

Reynolds & Reynolds, Dayton, Ohio.
(Manufacturing stationers.)

Rike-Kumler Co., Dayton, Ohio.
(Retail department store.)

W. H. Sutherland Construction Co., Dayton, Ohio.
(Building construction.)

United Brethren Publishing Co., Dayton, Ohio.

Kuert Construction Co., Martinsville, Ind.

American Rolling Mills Co., Middletown, Ohio.

Gardner-Harvey Paper Co., Middletown, Ohio.

The C. F. Sauer Extract Co., Richmond, Va.

Elwood Myers Co., Springfield, Ohio.
(Manufacturers of cans, novelties and leather goods.)

International Harvester Co., Springfield, Ohio.

Kelly-Springfield Truck Co., Springfield, Ohio.

Ridgeley Trimmer Co., Springfield, Ohio.
(Painters' and paperers' tools.)

The Robbins & Myers Co., Springfield, Ohio.

Thomas Stationery Co., Springfield, Ohio.

Troy Metal Products Co., Springfield, Ohio.
(Machine parts.)

Hobart Manufacturing Co., Troy, Ohio.
(Mechanical equipment.)

Board of Education, Washington C. H., Ohio.

The Hooven & Allison Co., Xenia, Ohio.
(Rope, twine and cordage.)

Xenia Division Antioch School, Xenia, Ohio.

Xenia Gazette, Xenia, Ohio.

Carr Nurseries, Yellow Springs, Ohio.
(Coniferous trees.)

Finley Drug Store, Yellow Springs, Ohio.

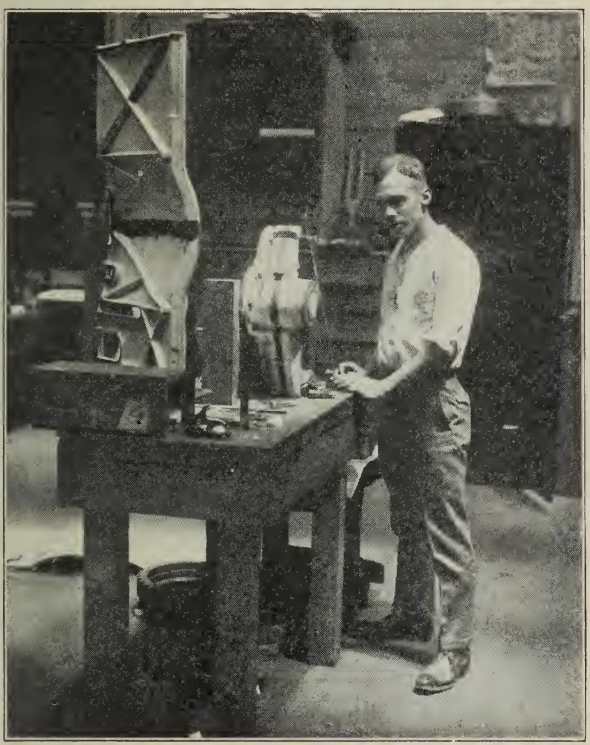
Yellow Springs High School, Yellow Springs, Ohio.

Antioch College, Yellow Springs, Ohio.

Academic Study Combined with Practical Experience—Academic study supplies only a part of the factors of education. The student does not master his calling until he has practiced it; he does not know of what stuff he is made until he has tried himself out. It is neither necessary nor desirable for the student to acquire his complete equipment of academic learning before he begins its application. If his work in industry gives meaning and direction to his studies and his studies to his work, his development will be better balanced, and his period of apprenticeship after he leaves school will be shortened.

It is the expectation of the trustees that gradually more students will develop their own industries under proper direction, such as printing, operation of a commercial machine shop, farming, etc. During the past year students have successfully run a book store and tea room, while a contracting com-

pany entirely under student auspices has engineered several projects on the college campus and in the village itself. This concern is extending its service to neighboring villages and to Springfield. The College's plans include, also, the construction of a standard factory building on the campus, to be occupied by a number of small industries, chosen because of the educational value of the work and



because of the possibility of reasonable wage scales. The College will furnish these industries with floor space, power, a large part of the labor, and, where desired, with administrative service. By having the factory located on the campus, the loss of time and money for traveling which is incurred under the usual cooperative plans will be avoided.

The Liberal Arts Courses—The content of liberal arts courses should be determined by a proper estimate of present values, and not by tradition. Antioch gives more than the traditional weight to subjects that inevitably affect us, and a knowledge of which assists us to direct our lives and our times; it will therefore give proportionately less time to other subjects.

The Technical Courses—Notwithstanding all of the centralization of industry that may occur, there

is and will continue to be abundant room in small, independent industries for well educated men of comprehensive outlook and general capability. If a school, instead of developing highly specialized experts, trains selected men by actual commercial or professional experience, as well as by academic study, in the fundamentals of human relationships, of scientific principles, and of business and professional methods, with the aim of making proprietors of small industries, it will have put these men and women on an open road to accomplishment, limited only by their individual capacities. It is this character of technical and professional training that the Antioch program provides, and in which it can best compete with the large universities.

An example can be given in the proposed Machine Shop course. American industry is becoming increasingly mechanical. While our factories are

Time Study in a Springfield Factory

turning out an enormous mass of mechanical appliances, our maintenance system outside of large cities is usually limited to poorly equipped shops. There is room in our country for a large number of independent machine shops, which would maintain this equipment and otherwise serve the mechanical needs of the communities. Such shops will not be "blind alley" industries; for it takes but a slight change to turn a well-organized shop into a factory.

The proposed Machine Shop course will have as an underlying requirement the fundamentals of a liberal arts education; for the student should become a cultural and social asset to his community, as well as an industrial asset. By half-time work through a six-year course, covering the different phases of his prospective industry, he may gain some of the experience necessary to make him an effective technician, a superintendent, and an executive. His technical studies include the fields of physics and mechanics, business administration and

accountng, psychology and sociology. After graduation he may at once undertake the management of a machine shop or serve an apprenticeship in one, depending upon his maturity and ability.

Vocational work in education prepares for teaching and the administration of schools. Here also general, well-balanced training is preferable to high specialization. (See pages 33-37.)

The technical courses lead to the mastery of fundamentals. The details of technique frequently may be left to personal mastery, either in college or later. The technical training should tend more to an understanding of principles and to the habit of applying them in practice, and less to

The College Book Store is Entirely Under Student Management

an accumulation of facts. Such courses at present include: education as applied to school management, business administration, civil engineering, contracting, farming, machine shop operation and management, and household arts. All courses are open to men and women alike. Women at Antioch have unusual opportunities in business and industrial management as well as in household arts and institutional administration.

REQUIREMENTS FOR DEGREES

The cooperative course, as outlined in this announcement, ordinarily requires six year for completion. Credit is given for work covered at other colleges and for experience acquired in the industries. The student may elect to devote his full time to college work, by alternation between groups of classes, instead of between industry and school. Courses conducted under the latter plan normally require four years.

If all entrance requirements are not fulfilled at the time of admission to the college, they must be completed after entrance. Such work is done in the Antioch School, and lengthens the course proportionately. In some cases, however, one or two

entrance conditions can be made up in the preparatory school at the same time college work is being carried on, without lengthening the time.

Four degrees are offered to students successfully completing college courses: Bachelor of Arts, Bachelor of Science, Master of Arts, and Master of Science. The degrees of Bachelor and Master of Science may be taken in Natural Science, in Industrial Management or in Engineering.

The completion of satisfactory work in at least seventy-two courses is required for the bachelor's degrees. Students shall be entitled to credit for the work in any course when they give definite evidence of having mastered its content, whether more or less time than is specified has been used in doing the work. A "course" consists of the equivalent of nine hours work a week for a quarter of ten weeks, usually divided into three classroom hours and six laboratory or preparation hours. This ten weeks of scholastic work is in two five-week periods in alternation with five-week periods at supervised industrial work.

For each year of satisfactory cooperative employment under the supervision of the College, two "courses" of "Industrial Practice" are credited, but not more than twelve such courses will be counted toward the degree. To obtain such credit, a student must show an orderly, responsible record "on the job."

A student of the Antioch type attends college to prepare himself for life, and not to go through the process of acquiring the necessary credits for graduation. Any student who shows by his general behavior that his dominant aim is the getting of credits, may be dropped, regardless of his average scholastic standing. The following statement indicates the general average of ability and accomplishment required for a young man or woman to maintain the status of student at Antioch:

To count towards the degree, a course must be carried with a minimum grade of D but the general average of all courses shall be 3.2 points computed according to the following scale:

Each A—5 points	Each D—2 points
Each B—4 points	Each E—1 point
Each C—3 points	Each F—0

If a student is conditioned and fails to remove the condition, or if he fails and does not later carry the course successfully, he must include the 1 point or the zero point as the case may be in the calculation of his final average, though such courses do not count towards the degree. If the condition is removed or the failed course later passed, the course shall count as 1 point less in the general average than of the grade attained. An average of 3.2 on all courses carried from

entrance to any given date shall constitute "Diploma Grade" as indicating that the student is maintaining the average grade required for the degree.

Any student whose total cumulative standing from entrance remains below diploma grade for two consecutive semesters shall ordinarily be placed on probation.

If students are deficient in entrance requirements, they are required to take enough courses beyond the seventy-two usually required, to make up the deficiency, except as the general maturity, experience and quality of the student shall have compensated for deficiency in secondary school subjects. Secondary school subjects will not be required simply to conform to any code of academic regularity.

Ordinarily a student must complete two years' residence at Antioch on the cooperative plan, or one in the case of a full time students, to become eligible for a bachelor's degree. The master's degree is conferred upon students who have completed twenty courses after receiving the bachelor's degree. This may be done in two years on the cooperative plan or one year under the full time plan.

REQUIREMENTS FOR ADMISSION

Standards for admission to Antioch in general are at least equivalent to those of the North Central Association of Colleges. The requirements differ only for the purpose of making them less artificial and more nearly a measure of the applicant's real ability. Admission depends upon a careful but informal examination of the student's qualifications in each particular case. High school graduation is desirable and will be given weight in arriving at a decision, but is not imperative, nor is it sufficient in itself to secure admission. Failure to complete a high school course at once raises doubt as to the prospective student's fitness for college work, and definite evidence of such fitness is necessary to remove that doubt. The general character, maturity, development, and intelligence of the student, measured by his record of accomplishment in school and out, weigh more heavily than the completion of any certain list of school subjects.

The first step toward securing admission is to fill out and return one of the application blanks. This application, if carefully executed, gives a very good indication of a prospective student's outlook and capability, and care should be taken in filling it out. In addition to this, a short psychological test, and where feasible, a personal interview with

a representative of the College, are required of all students before acceptance.

Because the entrance requirements for Antioch are less formal than at other colleges, it must not be thought that they are less exacting. Only young men and women of high personal character, receptive intellect, and power of application, can hope successfully to complete the course, and those who are not impelled by serious and earnest motives are not encouraged to apply for admission.

High school subjects which are essential as a basis for college studies must be taken in the preparatory department of the college, if not a part of the student's equipment upon arrival; unless, in the judgment of the faculty, an equivalent degree of development can better be secured by other methods.

The following work is essential as a basis for college studies:

English—A reasonable degree of facility in reading, writing, and speaking, and a reasonable acquaintance with literature.

Mathematics—Arithmetic and Elementary Algebra.

Chemistry (one year), Physics (one year)—These may be taken as regular college work, but may delay graduation if taken in college.

The following subjects are desirable, but lack of them will not jeopardize college work:

Geography (a knowledge of physical, political, and economic geography), French, German, American History, English History, Advanced Algebra, Plane and Solid Geometry, Plane Trigonometry, Mechanical Drawing, Manual Training.

Beyond these subjects, the courses for admission to Antioch are elective.

Students who register for admission a year or more in advance would do well to correspond with the College, to the end of coordinating high school work with that to be taken at Antioch.

Credit from Other Institutions—Credit for work done in other colleges will be granted as nearly as possible according to its actual worth. Credit will be given similarly for work done outside of school, if examination shows it to be of substantial merit.

TYPICAL COURSE OF STUDY

The following is a typical course of study for the student who desires to qualify for management and administration in any calling. Modifications of this course will be made in individual cases, as previous training and personal aims may justify. Many students make application for specific vocational courses, but when an analysis is made of their purposes, it appears that a decision has been reached without a sound basis of judgment. The large number of men and women who take professional courses, only to find that they are not fitted for that particular calling, is evidence of this tendency. A course which postpones specific vocational training until the later college years, gives the student an opportunity to arrive at a more mature decision based upon his own experiences in his part-time work, and upon the advice and counsel of his teachers.

First Year—First Semester

College Aims—3 hours per week.
Personal Economics and Finance—3 hours per week.
*Chemistry—3 hours per week.
*Mathematics—3 hours per week.
Literature—3 hours per week.
Physical Education—2 hours per week.

First Year—Second Semester

Chemistry—3 hours.
Mathematics—3 hours.
Literature—3 hours.
Scientific Method—3 hours.
Industrial Problems—3 hours.
Physical Education—2 hours.

*With permission from their advisers, students may substitute biology or physics in place of chemistry for the first year. In some cases a foreign language or other course may be substituted for mathematics. A student may elect courses beyond the number indicated, with permission of the adviser.

Second Year—First Semester

Literature—3 hours.
Physics—3 hours.
Biology—3 hours.
Social Science—3 hours.
Cost Keeping and Accounting—1 hour.
Industrial Relations—2 hours.
Physical Education—1 hour.

Second Year—Second Semester

Same subjects continued.

Third Year—First Semester

Social Science—3 hours.
Earth Science—3 hours.
Cost Keeping and Accounting—3 hours.
Traffic and Distribution—3 hours.
Specific Vocational Course, or option—3 hours.
Physical Education—1 hour.

Third Year—Second Semester

Same subjects continued.

Fourth Year—First Semester

Psychology—3 hours.
Finance—3 hours.
Industrial Research—3 hours.
Administrative Organization—3 hours.
Specific vocational course, or option—3 hours.

Fourth Year—Second Semester

Same subjects continued.

Fifth Year—First Semester

Philosophy and Psychology—3 hours.
Administrative Organization—3 hours.
Purchasing—3 hours.
Specific vocational course, or option—3 hours.
Physical Education—1 hour.

Fifth Year—Second Semester

Same subjects continued.

Sixth Year—First Semester

Publicity and Salesmanship—3 hours.
Production Engineering—3 hours.
Specific vocational course, or option—3 hours.
Option—3 hours.
Option—2 hours.
Life Aims—1 hour.

Sixth Year—Second Semester

Same subjects continued.

The cultural courses in the above outline are absolutely necessary for the Antioch degree and very little change is allowed, except that where the student has had the substantial equivalent of any required course. Taking advanced courses in one field will not relieve students from covering other required subjects.

In some special fields such as education, students substitute certain courses in education for some of the business courses outlined above. Students should plan their courses to conform to this viewpoint.

OUTLINE OF COURSES

Starred courses, or their equivalent, are required of candidates for the bachelor's degree.

DEPARTMENT OF ARCHITECTURE

All courses are autonomous and can be taken only with the consent of the instructor.

D1-D2—Freehand Drawing

First and second semester.

Mr. Grandgent.

Freehand drawing is offered for students who have shown some aptitude in freehand sketching but who have had little formal training. Consideration is given to proportion, lettering, landscapes, drawing from casts and from life. Students who show proficiency in this work are offered an opportunity to study with Mr. Grandgent in various fields of architectural work.

DEPARTMENT OF BIOLOGY

Courses in this department are designed not only for the general student, but also to furnish special training for those who expect to do advanced work in the field of biology or to study medicine.

***B1—General Biology—First Semester**

Mr. Inman, Mr. Nosker, and assistants.

This course consists of two lectures per week (third at pleasure of instructor) and three to four hours of laboratory work.

The aim of the course is to give the student a bird's-eye view of the plant and animal kingdoms, to create an interest in the laws and processes of life, and to bring to his attention some of the important economic and social problems of biology which of necessity man must take into account.

Topics such as nutrition, metabolism, reproduction, the origin and evolution of life, the cell and the cell theory, the laws of breeding and heredity, variation, survival of the fittest, genetics, and mendelian phenomena are considered in the lectures.

The economic importance of the various groups of plants and animals is to be emphasized throughout the course.

In the laboratory, type forms are studied with reference to structure, function, development, evolution and economic importance; also a number of interesting physiological experiments are performed.

The work is supplemented by field trips.

Prerequisite—One year of High School or College Chemistry.

***B2—General Biology—Second Semester**

A continuation of course B1.

***B3—(1922-1923 only)—First Semester**

Continuation of B1 and B2, dealing principally with Zoology.

Autonomous Courses

General Physiology.
Comparative Anatomy of Vertebrates.

Special and advanced work is encouraged in Botany and Zoology. Genetics, Plant Physiology, Economic Biology, etc., may be studied.

DEPARTMENT OF CHEMISTRY

***C1——General Chemistry—First Semester**

Mr. Adams and assistants.
Three recitations and two 2-hour laboratory periods per week.
Textbook, McPherson and Henderson's "Course in General Chemistry."

***C2—General Chemistry—Second Semester**

Continuation of C1.

Chemistry has come to play so important a part in our civilization that some acquaintance with it is a necessary part of a general education. The above two-semester course is planned to meet the need of the general student and also to furnish a foundation for those planning to specialize in the science. It will ordinarily be required for the degree unless the student has had an unusually good high school course in the subject.

Autonomous Courses

All of the following courses are autonomous and are offered to competent groups only with the consent of the instructor. Students who wish to specialize in chemistry or chemical engineering are given opportunity to do so by means of these courses and others in special fields. To be allowed to proceed along this line, students must show initiative and ability in chemical work. The fact that this program is carried on informally does not mean that it is less exacting or complete.

C3—Advanced General Chemistry—First Semester

Mr. Adams and Mr. Patterson.

C4—Advanced General Chemistry—Second Semester

Continuation of C3.

Courses 3 and 4 are intended for those desiring to specialize in chemistry. Part of the ground covered in C1 and C2 will be reviewed in a more thorough fashion and new topics will be taken up. Opportunity will be given in the laboratory for each student to progress according to his ability and to go on to qualitative analysis.

C11-C12—Qualitative Analysis—First and Second Semesters

Mr. Adams and assistants.

Students who cover the ground satisfactorily will be permitted to go on to quantitative analysis before the end of the year.

C13-C14—Quantitative Analysis—First and Second Semesters

Mr. Adams and assistants.

Students who complete the elementary work will be encouraged to take up special problems, such as the analysis of ores, water, etc.

C21-C22—Organic Chemistry—First half (open-chain hydrocarbons and their elementary derivatives)

Mr. Patterson and Mr. Adams.

C23-C24—Organic Chemistry—Second half (carbohydrates, etc.; cyclic compounds)—First and Second Semesters.

Mr. Patterson and Mr. Adams.

C31-C32—Physical Chemistry—First and Second Semesters.

Mr. Adams.

C41-42—See Department of Household Economics

DEPARTMENT OF EARTH SCIENCE

General Statement—The purpose of the work in earth science is to acquaint the student with the origin, history, and nature of the earth, and its place in the Universe. The department combines the subject matter of the closely allied subjects of geology, geography, climatology, and astronomy. Thus the origin, geological history, and present physical status of the earth are given logical and connected study.

The facilities which are available at Antioch for the teaching of earth science include a local field illustrating many phases of geology. The valleys of the Yellow Springs Creek and the Little Miami River contain many interesting erosion forms. All the members of the Niagara formation of Ohio are exposed within a short distance of the college. Fossils are plentiful. Glacial deposits in a variety of forms are found in the vicinity.

In addition, an excellent collection of fossils, supplemented by new laboratory sets of rock and mineral specimens; new sets of U. S. Geological Survey topographic maps; new physical wall charts; paleogeographic maps; a representative library of books, bound journals, and current periodicals; and a portable telescope, of four inch aperture, are available as aids in teaching.

***E1—General Earth Science—First Semester**

Mr. Swinnerton and Mr. Sayre.
Prerequisites—Courses B1 or C1 or equivalents, taken previously or simultaneously with Earth Science.
Two lectures per week. Laboratory and field work.

Course E1 introduces the student to the subjects of physical geology and physical geography. It deals with the materials and structure of the earth, and the processes which are constantly changing its face, and concludes with a descriptive study of geographical formation and of climates.

Lectures and required reading are supplemented by laboratory work in which the most important rocks and rock-forming minerals are identified, and a variety of drainage, coastal, and mountain features are studied by means of topographic maps. Supervised field study forms an important part of the course both in training the student to observe and in illustrating the methods of collecting geological data.

***E2—Second Semester**

Continuation of E1.
Mr. Swinnerton and Mr. Sayre.
Prerequisite—E1 or equivalent.
Two lectures per week.
Laboratory and field work.

Course E2 includes a brief study of descriptive astronomy: the movements of the earth, the place of the earth in the solar system, the planets, stars, and nebulae; and a discussion of the modern conceptions of the structure of the Universe.

The material presented in E1 and in the first part of E2 forms the basis for a consideration of the more important theories of the origin of the solar system, for the study of the evolution of

continents and mountains, and for the discussion of organic evolution from the geological and paleontological points of view.

Autonomous Courses

Students, properly qualified, are afforded opportunity to pursue advanced work in a variety of fields of study. Facilities are available for supervised laboratory, library, and, in most cases, field study in physiography, stratigraphy, structural and dynamical geology, paleontology, paleoclimatology, physical and economic geography.

DEPARTMENT OF EDUCATION

General Statement—The Department of Education of Antioch College offers comprehensive training combined with practical experience for students wishing to fit themselves for active work as teachers and school administrators. The plan goes further than normal school training and involves full college work leading to a degree. On the other hand, it does not attempt advanced research or a wide variety of specialized courses such as are ordinarily furnished only by graduate schools of education in large universities.

The location of Antioch College affords students easy first hand contact with both city and rural school problems. The Antioch cooperative plan has implications of especial value for students of education. The work of the Department is further strengthened by its relation with the Antioch School, the model and experimental school associated with Antioch College, which provides constant opportunity for observation of the best in progressive school practice and contact with teachers who are leaders in that field. (For further statement about the Antioch School see page 70.)

Courses offered by the Department include the educational subjects required by the Ohio School Law, which also fulfil the requirements for teaching in many other states. Graduates of Antioch College who have taken a minimum of thirty semester hours of properly selected courses in education receive without examination a provisional high school certificate from the Department of Education of the State of Ohio.

Practice teaching is ordinarily arranged in connection with the five-week work periods of the cooperative plan. Beginning students without teaching experience cannot secure the certificate requisite for employment in the Ohio public schools. For them a special, intensive course is arranged in the Freshman year to prepare them as early as possible in their college course to do cooperative

practice teaching. Beginning students of education who must finance themselves the first year, wherever possible will be helped to secure teaching work as assistants, or other remunerative employment until they can be fitted to teach.

This special course for freshmen is as follows:

First Semester

Ed1—College Aims

B1—Biology

L1—Literature

F1—Personal Finance

Ed11—Principles of Education

Ed13—Educational Psychology

H1—Physical Education

Second Semester

L2—English

B2—Biology

Ed2—Scientific Method

Ed12—Educational Methods

Ed22—Elementary Schools

Ed22a—Practice Teaching and Observation in Elementary Schools

H1—Physical Education

COURSES UNDER THE DEPARTMENT OF EDUCATION

***Ed1—College Aims**

Required of Freshmen.

Mr. Morgan, Mr. Nash, Mr. Dawson, Mr. Boothby, Mr. Gardner and others.

First Semester.

The object of this course is to acquaint the student with the aims and scope of a college education and to help him to make the most effective use of his time at Antioch. All departments of the college have a part in conducting the course. The subjects covered include a survey of world development and the place that an educated person should take in it; the ideals and aims of Antioch in fitting students for life; details of the Antioch plan, such as how to study, how to use the library, religious and social affairs, health and personal hygiene.

The course is conducted through lectures by various members of the faculty, and small

group meetings under Mr. Dawson. Notes on lectures and prescribed reading are required. Weekly written reports are used to test the student's ability to accommodate himself to the college environment.

***Ed2—Scientific Method**

Required of Freshmen.
Mr. Morgan, Mr. English, Mr. Patterson, Mr. Hourwich, and others.
Second Semester.

As many of the prescribed courses at Antioch are general survey courses, it is necessary that the student early in his college course acquire the habit of scientific analysis in the study of new problems and subjects. This course attempts to build up such a habit by calling attention to the value and results of such analysis. The course is conducted by lectures, section meetings for discussion, reports and prescribed reading.

Ed11—Principles of Education

Mr. Boothby.
First Semester.

Course 11 fills two functions. For the student of education it serves as an introduction to the subject. For the general student it presents such knowledge of current educational practice and problems as an intelligent citizen should have. It deals with education as directed human activity; its function as a great social institution; educative agencies in the community; the teacher and the school; the relation of education to politics and social progress; problems of present-day education and suggested solutions.

Ed12—Educational Methods

Mrs. Everdell.
Second Semester.
Prerequisite: Ed11.

A study in school management, classroom control, student government, lesson planning, use of tests and supplementary material, projects, teaching how to study, educational measurements.

Ed13—Educational Psychology

Mr. English.
First Semester.
Textbook Averill: "Psychology for the Normal School."

In education, psychology has long found its most fruitful field of application. In this course, the essential basis for a study of child life is laid. Particular stress is placed upon the inherited factors and upon the methods by which these can be controlled and modified.

Autonomous Courses

The following courses are autonomous and are offered with the consent of the instructor to groups of competent students. Not all of these courses are given in any one college year.

Ed15 and 16—History of Education

Mr. Weston.

Special emphasis is given to movements in American education which will help the student to understand the educational problems of today.

Ed17 and 18—Child Study

Mr. Boothby.

Physical and mental development in early childhood. Child interests and behavior, physical and emotional development, interests and attitudes of the adolescent period. Vocational guidance.

Ed21—Kindergarten and Primary Methods

Mrs. Thoenen.

Ed22—Elementary School Methods and Problems

Mrs. Everdell and Mrs. Thoenen.

Ed23—Junior High School Administration

Mrs. Everdell

Ed24—Senior High School Administration

Mrs. Everdell and Mr. Boothby.

Ed21a, 22a, 23a, 24a—Observation and Practice

Teaching courses related to the above.

Ed25 and 26—School Administration

Mrs. Everdell.

The legal status and organization of school systems; supervision and administration; school finance; school hygiene, including buildings, sanitation, furniture, fire protection, recreation, and medical inspection; special schools, relation of schools to the community.

Ed27 and 28—The Curriculum

Mr. Boothby.

General principles involved in curriculum making; examination of curricula of the past and present, and investigation of the factors which indicate need of change.

Ed29—Rural Education

Mrs. Everdell.

A study of rural life with special reference to education; supervision and administration of rural schools; the consolidated school.

Ed31—Theory and Practice of Physical Training in Schools

Mr. Prugh and Mr. Sayre.

A study of the aims of physical education, the relation of physical education to education in general, the selection of material, program construction, the organization and administration of the gymnasium, etc.

Other autonomous courses for advanced students are offered in research, methods of teaching special subjects, and special problems of education in the student's chosen field.

DEPARTMENT OF ENGINEERING

Building upon the foundations laid by the Departments of Mathematics, Physics, and Chemistry, the Department of Engineering attempts to give the student a basic knowledge of how fundamental laws are applied in Engineering.

It is not attempted at Antioch to give specialized instruction in all branches of Engineering. The student must learn on his cooperative job or later in actual practice much of the specialized technic of his profession. On the other hand, the department proposes to give students a solid foundation in the basic principles of Engineering so that the mastery of particular applications will be easily accomplished when they come to the student for solution.

Engineering schools everywhere are arriving at the conviction that it is the fundamental training they give which most benefits the student in later years, and that they have gone too far in specialized courses.

As in other departments, the courses in engineering at Antioch have the same bearing toward that field as the other courses have toward their respective fields. The primary aim is to develop ability for administration and management in the field of engineering, rather than to develop highly specialized technical skill.

Trained educators in the fields of Civil Engineering, Mechanical Engineering, Electricity, and Chemistry, are available to help competent students to go further along the line of their chosen profession than is outlined in the particular courses.

En1—Mechanical Drawing

Mr. Grandgent and Mr. Burgess.

First Semester.

This course is designed especially for students who will specialize in Engineering. It covers the use of instruments, scales, dimensions, lettering,

projections, layout work, elementary descriptive geometry and drafting.

En2—A Continuation of En1

Second Semester.

En21—Mechanics of Materials

Mr. Nash.
First Semester.
Prerequisite: M6.

A study of laws of beams, shafts, hoops, columns and other shapes of wood, steel and concrete. The course is open to properly qualified students of Civil, Mechanical, or Electrial Engineering.

En22—A Continuation of En21

Including an analysis of simple structures.
Second Semester.

En31—Advanced Heat and Thermodynamics

Mr. Frayne and Mr. Hourwich.
First Semester.
Open to students in Mechanical Engineering.
Prerequisites: M6, P2, or equivalent.

The course is a combined lecture and laboratory course. The physical properties of gases are studied with special references to changes of state. The various heat cycles are discussed with reference to their application in compressors, gas and steam engines, turbines, etc. A study of fuels and elementary principles of combustion and refrigeration is included in the course.

Supplementing the lecture and classroom work there is a four-hour laboratory period each week. The laboratory work consists largely of performance testing of gas engines, steam engines, boilers, fuels, etc.

En32—A Continuation of En31

Second Semester.

En41—Electricity

Mr. Frayne.
First Semester.
Prerequisites: P2 and M6 or equivalents.

This course is designed for students in Electrical Engineering and forms the basis for their later work. It consists of lectures, problem work and laboratory work in the field of electrical measurements and electrical machinery.

Autonomous Courses

An opportunity is offered to competent students to extend their studies in the various fields of engineering by independent work with the

advice and oversight of the officials of the Morgan Engineering Company and the engineering members of the Antioch faculty. The following courses are offered in 1922-1923 if groups of competent students apply for them:

En5—Structural Drawing

Mr. Nash.

A course for students in Civil and Mechanical Engineering to give them some insight into the use of steel and concrete handbooks and experience in working out simple construction problems on the drafting board.

En12—Elementary Surveying

Mr. Jones.

Theory and practice of plane surveying include tape and transit work, leveling, traversing, surveying computations, adjustment of instruments.

En14—Railroad Surveying

Mr. Jones.

En16—Concrete

Mr. Jones.

An elementary discussion of the properties of concrete and the design of concrete structures. Ordinarily open only to students of Civil or Mechanical Engineering after the freshman year.

DEPARTMENT OF ACCOUNTING AND FINANCIAL ADMINISTRATION

***F1—Personal Accounts and Finance**

Mr. Magruder, Mr. Horner, Miss Julia Turner.
Required for freshmen.
First Semester.

Text: McKinsey—Bookkeeping and Accounting Part I. Practice sets furnished as they become necessary.

This course deals with the elementary principles of accountancy and financial administration, and touches on those phases of the subject with which each person in his every day life must deal. Such subjects as bookkeeping, accounting theory, budgeting, commercial law, and other economic problems are briefly discussed with the object of getting the student acquainted with this broad field. Each student will be required to make out a budget for his or her expenses and keep these through the year. No credit will be given in this course until this book is balanced and completed. Student expense books may be had at the book store.

***F11—Accounting and Financial Administration**

Mr. Magruder.
First Semester.

Text: McKinsey—Bookkeeping and Accounting Part II.

Course F11 is intended for those who will become executives. It shows how to set up standards by which to measure business results. The relation of reports, records, standards, and procedure in business management is clearly demonstrated. The needs and purposes of administration standards, reports, and records and the characteristic features of these reports are studied.

***F12—Accounting and Financial Administration**

Continuation of F11.
Mr. Magruder.
Second Semester.

Text: McKinsey—Bookkeeping and Accounting Part III.

F13—Accounting—Theory and Practice

Mr. Magruder.
First Semester.
Prerequisites: F12.
Text: Kester, Vol. II.

F13 is intended especially for those who are preparing to be executives in business. Such accounting problems as a business executive will have to face are discussed in this course.

F14—Accounting—Theory and Practice

Continuation of F13.
Mr. Magruder.
Second Semester.

Autonomous Courses

Students who are fitted for further work in accounting and financial administration and who wish to specialize in this field are encouraged to work with the instructors of the department in the study of such courses as will lead to qualification for the degree of Certified Public Accountant.

DEPARTMENT OF FOREIGN LANGUAGES

German

FL1 and FL2—Elementary German

Mr. Dawson.

A course in beginning German. It is intended to lay the general foundation for any desired course of literary or technical German.

Autonomous Courses

In addition to the courses described below other autonomous courses are provided for advanced students who wish to do extended reading. Students desiring special practice in the reading of technical German work with Mr. Patterson; all others with Mr. Dawson.

FL3 and FL4—Second Year German

Mr. Dawson.

Wesselhoeft: Grammar Review.
Brandt: German Reader, Wesselhoeft.
Auerbach: Brigitta. Storm: Immensee. Gerstaecker: Germelshausen. Heine: Die Harzreise, or Freytag: Die Journalisten. Lessing: Minna von Barnhelm.

FL5 and FL6—Third Year German

Mr. Dawson.

Bernhardt: German Composition. Reading at sight Schiller: Wilhelm Tell. Schiller: Maria Stuart. Easy Comedy.

Second Semester.

Goethe: Hermann und Dorothea; Iphigenie auf Tauris. Schiller: Jungfrau von Orleans.

In all German courses after the first year, Joynes-Meissner's German Grammar, or Thomas' for reference, and Heath's German Dictionary are used. For outside reading: among others, Holzwarth: Gruss aus Deutschland; Dippold: Scientific German Reader; Hauff: Lichtenstein; Scheffel: Der Trompeter von Saekingen.

French

FL11 and FL12—Elementary French

Mr. Bartlett and Miss Parkhurst.
A course in beginning French.

Autonomous Courses

In addition to the courses noted below other autonomous courses are provided for advanced students who wish to do extended reading in French or Spanish. Students desiring special practice in the reading of technical French work with Mr. Patterson; others with Mr. Bartlett and Miss Parkhurst.

FL13 and FL14—Advanced French

Designed for students who have had one year of French.

Mr. Bartlett.

First Semester.

FL15 and FL16—French Literature

Mr. Bartlett.
First Semester.

A course for students with considerable experience in the French language.

Spanish—All Courses are Autonomous

FL21 and FL22—Elementary Spanish

Mr. Pardino.

A course in beginning Spanish.

FL23 and FL24—Spanish Literature

Mr. Pardino.

A course for students who are competent to take advanced Spanish literature and composition.

Autonomous Courses in Classical Languages

Latin and Greek are offered in autonomous courses under the direction of Mr. Dawson to students who elect work in these fields.

DEPARTMENT OF HOUSEHOLD ECONOMICS

The six-year course in Household Economics is planned to train students in the fundamentals of the science and in cooperation with the department of education to train teachers in the field. A part of the instruction given elsewhere in classroom and laboratory comes by way of paid work in kitchen, dormitory, shop and office. Under present industrial conditions, girls cannot expect to earn much more than living expenses in the cooperative work, but they will acquire information through experience which transmutes it into knowledge. All paid workers in the dining halls and dormitories are supervised by Miss Turner as employer, and are planned to serve an educational end as well as to earn money for the student. Living conditions at the college secure for the student of household management unusual opportunities for study and for the development of taste, skill and judgment.

In addition to the courses listed below, autonomous or group work is planned to meet the need of advanced students, both men and women; for example, for boys whose cooperative work is handling food or textiles.

Every course is a full three-hour course, with laboratory hours and experience in the practice house.

HE1-2—Food—Elementary Courses in Nutrition and Cookery

Required of all women for graduation.

Miss Turner, Miss Craven.

The purpose of this course is to give young women a basic knowledge of the nutritive value of foods. The choice, preparation, and serving of the most common types of food are studied. Especial attention is given to manipulation and standardized products in cookery.

HE3-4—Food—Advanced Course

Prerequisites: Biology 1 and further study of nutrition, special diets, cookery, or whatever topics meet the need of the student.

Miss Turner, Miss Craven and assistants.

Autonomous Courses

All of the following courses are autonomous and can be taken only with the consent of the instructor. Not all of them are given in any one college year.

C41-42—Food Chemistry

Mr. Patterson and assistants.

P3-4—Household Physics

Mr. Frayne and assistants.

HE9-10—House Planning, Building, Furnishing and Care

Mr. Grandgent, Miss Turner and assistants.

HE11-12—Textiles and Sewing. Principles of Garment Design and Construction

Especially for women, but also open to men in connection with cooperative work in textile industries.

Miss Turner and assistants.

A study of the production and manufacture of the principle textile fibers used for clothing and household purposes. An application of this knowledge in the selection of materials used for garments made by the class. A brief study of color, line and design as applied to the individual needs of the student.

HE13-14—Textile Chemistry.

For students handling fabrics.

Dr. Patterson and assistants.

HE15-16—Institutional Management

Miss Turner.

For students doing cooperative work in the kitchen and dormitories.

HE17-18—Home Nursing and Child Care

Miss Field.

HE18-19—Method of Teaching Household Economics

For students whose cooperative work is teaching. Miss Turner, Mrs. Everdell.

This comprises a survey of various texts and other educational literature pertaining to the teaching of Home Economics. A study of the curricula of various types of schools in which this department holds a prominent place; the organization and equipment of such departments and the working out by each student of a course of study to fill the needs of some special school.

DEPARTMENT OF INDUSTRIAL MANAGEMENT AND BUSINESS ADMINISTRATION

This department has general supervision over the industrial work of the Antioch students.

In so far as possible, it places Antioch students, both men and women, in industrial work that is best suited to their individual needs and wishes. It maintains an advisory supervision over the work and the progress of the students, and in cooperation with their employers, guides them in their personal industrial problems.

The department also has general supervision over the courses in business administration, advertising, salesmanship, purchasing, personal relations, industrial research, and traffic and distribution. These courses are designed to be coordinated so as to give the student a well balanced knowledge of business problems, and some power in their solution.

*I1—Industrial Problems

Second Semester.

Mr. Gardner, Mr. Hourwich and Mr. Gillgus.

The course is designed as an introduction to industry for freshmen. It is aimed to give a bird's-eye view of the industrial organization of modern society. The following subjects are covered by lectures, reading, papers and discussion groups: The Growth of Industry; Functional Organization of a Modern Factory, involving Purchasing, Sales, Manufacturing, Cost Systems, Scientific Management, Industrial Relations, Women in Industry, Graphic Control, Research; Corporation Finance, The Training of a Business Man.

"The Administration of Industrial Enterprises," by Edward D. Jones is used as a textbook. In addition, selected reading is assigned from the following sources: "The Principles of Scientific Management," by F. W. Taylor, "Scientific Management and Labor," by R. F. Hoxie, "The Organization of Scientific and Industrial Research," by C. E. F. K. Mees, "Personnel Administration" by Tead and Metcalf, and

"Statistical Abstract of the United States," Department of Commerce.

***I11—Industrial Relations Problems**

Mr. Gardner and Mr. Hourwich.
Second Semester.
Prerequisite: I1 or equivalent.

An analysis of modern industrial relations problems and a study of best practice in meeting them, involving such phases of industrial relations work as:

(a) Employment methods. Theory and practice in the operation of a functionalized employment department and its relation to other departments.

(b) Working conditions. Study of problems of safety, sanitation, plant layout and equipment, transportation, etc. The effect of such conditions upon employes and upon production.

(c) Wages and incentives. Study of various types of wage systems, savings and insurance plans, pension systems, etc.

(d) Industrial education and training. Methods of training the manual worker. Americanization, extension classes, foremen's meetings, etc. The value of industrial education to employer and employe.

(e) Research and legislation. Technical analysis as applied to personnel questions. Tests: Labor legislation, workmen's compensation, etc.

(f) Joint relations. Survey of service activities along lines of social interests, recreation, housing, etc. Company publications. Shop committees and employe representation.

Accepted practice as illustrated by the policies and methods of leading industrial concerns is analyzed from the standpoint of its fundamental soundness and its success in actually solving the problems which it is designed to meet.

***I12—A Continuation of Course I11**

Second Semester.

I13—Industrial Personnel Problems. Autonomous.

Mr. Gardner.
First Semester—One period of two hours each week, scheduled at convenience of instructor and students.

Prerequisite: I12 or equivalent.

A graded series of practical industrial problems is analyzed by the individual student and by selected groups of students. These problems range from the simpler examples introduced by students from their experiences in cooperative

employment to the more complicated ones confronting large industrial organizations and bearing upon our welfare as a producing nation. The open discussion is utilized to a great extent on those problems which present controversial factors and offer an opportunity for informal debate. Coming, as it does, after a rather detailed course in common practice in industrial relations, this course offers an excellent chance for constructive and original attack on problems which actually exist in various lines of business activity.

***I21—Industrial Research**

(Not given until September, 1923.)
Mr. Hourwich.

The following subjects are covered: The relation of science to industry. Short history of scientific advance. Experimental method. The analysis of future possibilities and problems as the basis for industrial policy. The application of constructive imagination to industrial policy. Statistical method as an aid to research. The conduct of a research investigation. Laboratory problems of organization, personnel, report preparation and administration. Economic value of research. Research agencies. The inter-relation of research, government, society, the engineer and the scientist.

I23-24—Industrial Engineering. (Autonomous)

Mr. Gardner and Mr. Hourwich.

An introduction to management engineering through assigned reading and discussions of standard works on this subject. Only students engaged in cooperative employment are eligible, since papers are prepared at frequent intervals on various aspects of the management of industrial enterprises in actual operation. The Harvard Business Studies series, etc., are used as texts.

***T1—Traffic and Distribution**

Mr. Pett.
First Semester.
Prerequisites: S11 and 12 or equivalent.

Designed to furnish the student with a broad understanding of the earth from the standpoint of its utility to mankind, this course covers, first, a comprehensive survey of the geographic factors behind the principal industries of the world, and second, a study of the land and water transportation and distribution of the major commodities of world commerce. Some attention is also given to marketing methods particularly as regards agricultural products. Stress is laid on the development of rail transport on the North American continent, and less detailed attention

given to the land routes of other continents. The elements of ocean trade and transport embrace types of ships, ports and terminals, rate making, traffic pools and combinations, as well as a study of the relative strength of the merchant marines of the leading nations engaged in ocean commerce, with special emphasis on the problems confronting the American shipping industry today. Lectures, group discussion, and special topics.

Ordinarily this course is not open to freshmen.

***T2—A Continuation of Course T1**

Second Semester.

Includes a study of foreign and domestic shipping problems in packing, routing, and tracing in large organizations.

***A1—Advertising and Merchandising**

Mr. Keever.

First Semester.

This course takes up the fundamental principles of advertising—mass psychology and selling appeal. Elements of copy and layout are considered. A short study is made of mediums, engraving, display, etc. Discussions are held of advertising campaigns with analysis of reasons for success or failure. The merchandising of a product from raw material to ultimate customer with the tie-up between advertising and sales policy is worked out. Retail salesmanship and specialty salesmanship are studied.

Lectures, class discussions and collateral reading.

***A2—A Continuation of A1**

Second Semester.

An opportunity is offered for advanced or special students to work with Mr. Keever in actual advertising campaigns and in other ways to get a firm foundation in the subjects of advertising and salesmanship.

***PUR1—Elements of Purchasing**

First Semester.

Mr. Smith.

This course is designed to give the student an insight into the ordinary purchasing department of a large industry and how to reorganize such a department so as to give service for the small concern. A study is also made of good purchasing methods in several staple industries.

***PUR2—A Continuation of PUR1**

Second Semester.

DEPARTMENT OF LITERATURE AND ENGLISH COMPOSITION

Mr. Morgan, Mr. Gibbs, Mr. Dawson, Mr. English, Mr. Patterson, Mr. Bartlett, Mrs. Wright, Mr. Johnson, Mrs. Clark, and others.

The aims of instruction in this department are: (1) to develop the command of English as a means of spoken and written expression; (2) to cultivate a taste for reading the best products of English and American authors and to provide students with a systematic scheme of literature, accompanied by an appropriate background of political and social history; and (3) to interpret and correlate, by means of literature, the student's work in all fields —science, philosophy, economics, history, and languages—so that all studies may be organized into a discipline and life-philosophy.

First Year

***L1—English Composition and Introduction to Literature**

Mr. Morgan, Mr. Gibbs, Mr. Johnson, and others.
First Semester.

The structure of compositions, paragraphs, and sentences; good-use; the principles of clearness and force; vocabulary building; expression as related to experience and reading; study of the values and uses of literature.

Types of literature: epic and narrative poetry; lyric poetry; drama; satiric poetry; the essay; the novel.

Text-books: Smith—"What Literature Can Do for Me" and Cunliffe and Lomer—"Writing of Today."

***L2—The Literature and History of Religion**

Mr. English, and others.
Second Semester.

The Literature and History of Science

Mr. Patterson, and others.

Second Year

***L3—English and American Literature**

Mr. Gibbs, Mr. Johnson, and others.
First Semester.

The beginnings of English literature; the age of Chaucer; the Renaissance and the age of Shakespeare; the Seventeenth century; the Queen Anne period.

English and American literature—modern democracy: the rise of naturalism and romanticism; the Revolutionary period.

***L4—English and American Literature—Modern Democracy**

Second Semester.

Mr. Gibbs, Mr. Johnson, and others.

The age of Victoria; American literature of the period 1830-1880.

This course is conducted by lectures, class discussions, library readings, written reports and themes, and individual conferences.

Text-book: Greenlaw and Hanford's The Great Tradition.

L5—English Composition

This course is required of students whose written work in any department falls below the standard of correctness and effectiveness set by the institution. Such students take this course as a special drill in written composition. The Century Handbook of Writing is prescribed. Instruction is given individually and in small groups.

Autonomous Courses

Opportunity is afforded students who wish to specialize either in literature or in composition to carry their work beyond the required courses. Students of composition may select a special literary form—for example, the editorial or the short-story—and present original material for criticism. Students of literature may select a major English or American author for systematic reading under supervision, or may investigate a period or a literary type—for example, the age of Wordsworth or the modern prose drama.

DEPARTMENT OF MATHEMATICS

***M1—Trigonometry**

Mr. Nordgaard.

First Semester.

At the first meeting of the course it is divided into three sections. Students are tested as to general mathematical knowledge and ability and are then placed in Section A, B, or C, depending on their ability.

The work in the course consists of a very short discussion of quadratic and higher powered equations followed by trigonometry which takes up the rest of the semester.

M2—Analytic Geometry Combined with Business Graphs and Statistics

Mr. Nordgaard.

Second Semester.

The course is redivided into sections depending on grade of work done in the first semester.

An attempt is made to tie analytic geometry to the students' experience by combining its study with that of business graphs, statistics, and their uses.

M3—Differential Calculus

Mr. Nordgaard.
First Semester.
Prerequisites: M2, or equivalent.

M4—Integral Calculus

Mr. Nordgaard.
Second Semester.
Prerequisite: Course M3 or equivalent.

M5—Applied Mechanics—Statics, Kinetics

Mr. Nordgaard.
First Semester.
Textbook: Boyd—"Mechanics."
Prerequisites: M4, or equivalent.

M6—Continuation of M5

Second Semester.

Autonomous Courses

Students who are competent to do so are encouraged to take higher mathematic courses leading to advanced work in physics, engineering and mathematics.

DEPARTMENT OF PHYSICS

***P1—General Physics**

Mr. Frayne and Assistants.
First Semester.
Textbook: Kimball—"College Physics."

Three recitations per week and one two-hour laboratory period.

Prerequisites: M1 or equivalent, to be taken simultaneously.

This course introduces the student to the physical laws of the universe. Emphasis is laid on fundamental principles rather than on formulae. During the first semester, the subjects of Mechanics, Elasticity and Sound are taken up in lectures and laboratory work.

***P2—General Physics—A Continuation of Course P1**

Second Semester.

Heat and electricity are emphasized during the second semester. X-rays, radio activity and

radio are briefly covered and some of the general principles of optics are studied.

Autonomous Courses

P3—Household Physics.

Mr. Frayne, Miss Turner and assistants.
First Semester.
Textbook: Lynde's Household Physics.

This course aims to give a thoroughly practical training in the subject of Physics as applicable to modern life, and especially to the modern home. This course is open only to those specializing in Home Economics.

P4—Household Physics—A Continuation of P3

Mr. Frayne and assistants.
Second Semester.

P11—Radio Transmission and Reception.

Mr. Frayne.
First Semester.

Prerequisite: P1 and P2, M3 and M4, to be taken previously or simultaneously.

The general principles of electromagnetic wave production, transmission and reception are studied. Practical work is done with vacuum tubes in transmission and receiving circuits. Practical operation of the contemplated broadcasting station is included in the course.

P12—Radio—Continuation of P11

Mr. Frayne.
Second Semester.

DEPARTMENT OF PSYCHOLOGY AND PHILOSOPHY

***PL1—General Psychology**

Mr. English and assistants.
First Semester.

Prerequisites: B2 and (except by permission of instructor) two years of college work.

Textbooks: Psychology, A Study of Mental Life (Woodworth), The Dynamics of Individual and Social Psychology (English.)

This is an introductory course and is conducted by lectures, conferences, and demonstrations. It aims to inform the student in regard to the fundamental principles underlying the subject, in what directions the chief problems lie, how a trained psychologist approaches such problems, and how to find dependable information. The applications of psychology are touched on incidentally, but the chief stress is on those por-

tions of psychological theory which are most fruitful for the interpretation of human conduct in its socially important aspects.

***PL2—General Psychology (Continued)**

Mr. English and assistants.
Second Semester.

ED15—Educational Psychology

(See Department of Education.)

***PL11—Elements of Philosophy**

Mr. Weston.
First Semester.

This course gives an introduction to the history meaning, and value of the study of philosophy, its problems and the more important theories of their solution. It also emphasizes the relation of philosophy to psychology, logic, ethics, science, and religion.

This course is ordinarily not open to freshmen.

***PL12—A Continuation of PL11**

Second Semester.

Autonomous Courses

The courses listed below are autonomous, and are open only to groups of competent students interested in further study and research. Autonomous courses other than those listed may be arranged in psychology and philosophy by consultation and arrangement with the head of the department.

PL3—Social Psychology

(Given in alternate years. Not given in 1922-23.)
Mr. English.
First Semester.
Prerequisite: PL2 or equivalent.

This course treats of those factors in the behavior of the individual which are most important to the explanation of social phenomena and of the effects upon the individual's conduct of various kinds of social groupings.

No textbook is used. Lectures are supplemented by open discussion based on wide reading in such books as McDougall's "Social Psychology," Wallas' "Great Society," Follett's "The New State," Dewey's "Human Nature and Conduct," Hocking's "Human Nature and its Remaking," Martin's "Behavior of Crowds."

PL4—Applied Psychology

(Given in alternate years. Not given in 1922-23.)
Mr. English.
Second Semester.
Prerequisite: PL1 or equivalent.

The content of this course is arranged to suit

the interest and needs of those enrolled. Psychological tests in school and industry, mental deficiency, social hygiene as based on psychology with special consideration of the causes of delinquency, the limitations of vocational counsel, and the problems of morale are among the choices offered. No single one of these topics will be extended to cover the entire semester.

PL5—Experimental Psychology

Mr. English and assistants.
First Semester.
Prerequisite: Three courses in psychology.
A laboratory practice course.

Suite of Counselor of Women

DEPARTMENT OF HYGIENE AND PHYSICAL EDUCATION

It is the function of this department to inform students as to the principles of personal hygiene, to impress upon them the value of physical health, to discover and classify their physical defects or weak points, and to offer a rational program of exercise designed to correct their defects and build up strong men and women.

Every student is accorded a physical examination and strength test in the fall. Thereafter a close watch is kept of the student's general health and physical development. This work is done by the school physician, the physical director and assistants.

The department confers on special problems with the other college departments where questions of health, personal history, etc., are involved.

***H1—Physical Education**

Mr. Prugh and Mr. Sayre.
Both Semesters.

Field work and weekly lectures. Students are given wide latitude in choosing games, sports,

and gymnasium class exercises that will maintain their bodily health. The lectures cover the field of personal hygiene and group hygiene.

Students preparing to teach physical education are referred to page 37.

DEPARTMENT OF SOCIAL SCIENCE

Lord Bryce in an address said as follows: "The world is becoming one in an altogether new sense—as the earth has been narrowed through the new forces science has placed at our disposal. * * * The movements of politics, of economics, and of thought, in each of its regions, become more closely interwoven—whatever happens in any part of the globe has now a significance for every other part. World history is tending to become one history. The widening of the field is also due to a larger conception of history, which (through the aid of archaeology) now enables us fairly to discern the outlines of a process of slow and sometimes interrupted development of mankind in the old world during a period each one of the divisions of which is larger than all the time that has elapsed since our first historical records begin."

It is in this light that this department aims to introduce the student to a survey of the history of man, his struggles and achievements. Man is a social being and therefore no history of man is complete unless note is taken of the teachings of sociology. Thus it will be rather, a study, presentation and discussion of the forces, social, spiritual and economic, that will throw light on what man has been and what he is, than a chronological survey of kings and dynasties. This will be a two-year course and will be given in the following order:

First Year

***S1—Evolution and Primitive Man, Early Empires and Civilizations. The Greeks and the Romans.**

Mr. Chatterjee.
First Semester.

***S2—The Growth of Western Civilization. The Growth of Eastern Civilization. The New Life and the New World.**

Mr. Chatterjee.
Second Semester.

***S3—The Meeting of the Civilizations of the West and East. Some of the Fruits of the Idea of Nationalism. The Great Empires.**

Mr. Chatterjee.
First Semester.

*S4—**Social, Spiritual and Economic Background of the Great Empires; History of Nations are but the History of Man Who Has Made Himself "Demi-god Out of a Brute." The Present World Order.**

Mr. Chatterjee.
Second Semester.

After 1922-23 the content of courses S3 and S4 will be as follows:

Moral Law as Law of Nature; Morals and Culture; Rationalism; the Rise of Modern Science; the Industrial, Political and Social Revolutions; European Liberations; Darwinism.
First Semester.

The Idea of Rationalisms; the History of Japan; the British Empire; the Present World Condition.

It will be noted that courses S1-S4 give a complete outline of world history, and the beginnings of sociology.

*S11—**Economics**

Mr. Weston.
First Semester.
Prerequisites: S1 and S2.

A general course in the principles of economic theory with practical applications in production, distribution and exchange, organization of industry, money and banking, the tariff, and labor problems.

This course is not open to freshmen.

*S12—**Economics—A continuation of S11**

Mr. Weston.
Second Semester.

Autonomous Courses

Students who are competent to do so are encouraged to study further in the fields of History, Sociology and Economics under the leadership of Mr. Chatterjee and Mr. Weston.

LIBRARY INSTRUCTION

Experience in library methods is gained by actual practice in the daily work of the Library. Co-operation with neighboring libraries furnishes opportunity for gaining a variety of practical experience. Instruction is given in the use of reference books in connection with the card catalogue; in the use of books as tools; also in filing and indexing. For intending teachers, instruction is given in the organization and care of school libraries.

Students interested in librarianship as a profession find opportunity, through the departments of language, literature, and history, to prepare for entrance to any of the standard library schools. At least two years of college work are required for such preparation. Completion of the full college course is desirable and waives entrance examination to most of the library schools.

EXTENSION COURSES FOR TEACHERS

Extension courses in literature, biology, and social science, designed especially to meet the needs of teachers, will be offered on Saturday mornings throughout the year. Other subjects will be included in the program if a sufficient number wish them. Extension courses will be counted toward a degree provided the student is accepted as a candidate for such degree, and completes at least one year of residence on the full time plan, or two years on the cooperative plan, such residence being required of all candidates for degrees at Antioch. Such allowance will be on the basis of one course of three semester hours for twenty weeks. Classes will begin work Saturday morning, September 9th. It is desirable to register in advance if possible. A registration fee of $2.00 will be charged. Tuition will be $20.00 for each course consisting of twenty weeks' work.

SPECIAL VOCATIONAL COURSES

Antioch vocations are to include, besides the departments already organized:

Machine Shop Operation.
Printing, Publishing, and Journalism.
Contracting.
Farming.

When this catalogue goes to press, the personnel organization of these departments has not been worked out. It is planned that the persons who will handle the teaching in these industries will also act as proprietors and managers of similar industries in partnership with the College. The present industrial situation is such as to retard

the starting of such industries, and to make difficult the procuring of competent persons to manage them and to instruct students in their principles, until the College is sure of their financial success.

If industrial conditions justify, it is expected that instruction in all of the above vocations and in some others will be started during the school year, 1922-1923.

SCIENCE-AGRICULTURE COMBINATION COURSE: ANTIOCH COLLEGE AND OHIO STATE UNIVERSITY

Antioch College has arranged with Ohio State University for a combination course in agriculture. By this arrangement the first four years of the work in the Department of Agriculture may be carried on at Antioch College, for which the University will give full credit in its requirements for the degree of Bachelor of Science in Agriculture. The conditions and requirements are outlined below:

Time Required—Total time required, six years, four of which are to be spent at Antioch College and two years at Ohio State University. At the end of five years, the degree of Bachelor of Science will be conferred by Antioch College, and at the end of six years the degree of Bachelor of Science in Agriculture by Ohio State University.

General Requirements in Antioch College—

1. No student is eligible for a degree in the Science-Agriculture Combination Course who has not completed three years' resident work at Antioch College and one year's resident work at Ohio State University.

2. The faculty of Antioch College reserves the right to refuse to recommend for the combined course any candidate who has not maintained a standard of good scholarship.

REGISTRATION

A registration charge of $10.00 is made, payable at the time the prospective student is accepted for entrance. In the event a prospective student is registered for entrance some years in advance, a charge of $10.00 per year is made for registration.

ENROLLMENT

Before the first semester opens, each student is assigned to one of the three divisions: Division A, Division B, or Division C—the first two being composed of cooperatve students, and the last comprising the full-time students. Cooperative stu-

dents (Divisions A and B) are requested to report at Antioch as long before the College opens as will be convenient for them, making arrangements in advance by correspondence, so that they may the sooner settle into college life and be assigned to their several industries. This avoids the haste and possible misjudgments of last-minute pressure, and works for the mutual advantage of both College and student. Full-time students (Division C) need not report until the College opens, September 5, 1922.

EXAMINATIONS

Twice each year determination is made, either by examination or conference, of the student's actual accomplishment during the semester, and credit towards his degree is given accordingly.

ASSEMBLY

Attendance at assembly, held three days per week, is compulsory for all students during the coming year. Every effort is made to make the simple exercises worth while. Besides addresses by faculty members, many distinguished visitors have contributed valuable talks during 1921-1922. Among them have been John Dewey, Ida M. Tarbell, C. F. Kettering, Henry S. Dennison, Hamilton Holt, Professor Charles H. Grandgent, of Harvard; W. H. Donham, Dean of the Harvard School of Business Administration; Joseph P. Day, of New York; Hon. S. D. Fess, and others.

FACULTY ADVISERS

Each student, upon entering the College, is assigned to the personal attention of a faculty adviser. It is this adviser's duty to assist the student in his choice of elective studies, in selecting the type of industrial work he is best fitted to do, and generally in adjusting himself to the conditions of college life. The student is expected to keep in close touch with the adviser throughout the year, and to discuss with him all college and personal plans, perplexities, and difficulties, as he would with an intimate friend. It is needless to emphasize that the most harmonious and confidential relations should exist between the student and his faculty adviser.

STUDENT HEALTH

The care of the health of the College community is one of the most important activities at Antioch. In addition to a thoroughly trained physician, the Department of Public Health has on its staff a

trained nurse of wide experience, and a bacteriologist, in charge of the Public Health Laboratory. Twice yearly students receive a thorough physical examination, and unless refused by them, typhoid and smallpox immunization given. The Schick test for susceptibility to diptheria is also given, followed by innoculation of those found susceptible. Iodine prophylaxis for goitre is also available. Special attention is paid to postural defects of students, and in conjunction with the Physical Director every effort is made to correct them. The school water and milk supply are under the jurisdiction of this Department. An infirmary is equipped for mild cases of illness, and more serious emergencies are cared for in nearby hospitals.

The Laboratory during the coming year will be equipped for water analysis, bacterial count for milk, and to carry on various lines of pathological investigation for practicing physicians in this area. Students planning to enter the medical profession, or intending to specialize in bacteriology, will be given excellent opportunity for practical training in these fields.

LOCATION

Antioch College is situated at Yellow Springs, in Greene County, Ohio, a beautiful village, twenty miles from Dayton, seventy-five miles northeast of Cincinnati and fifty miles west of Columbus in the heart of the rich and fertile Miami Valley. Yellow Springs is on a branch of the Pennsylvania Railroad running from Xenia to Springfield. Railroad tickets should be purchased and baggage checked to Yellow Springs. In case of poor railroad connection at Springfield or Xenia, the trip of nine miles from either place may be made by traction. Xenia is on the east and west through line of the Pennsylvania, and Springfield is on the main line of the New York Central (Big Four Division), on the Erie, and on the Detroit, Toledo & Ironton. Branches of the Baltimore & Ohio Railroad reach Dayton and Xenia. There is also through Pullman service to Yellow Springs on the Pennsylvania Railroad from Chicago.

BUILDINGS AND GROUNDS

The College buildings are five in number: the main building, two dormitories, the Horace Mann House, and the Mills House, which is now used for the Antioch School. These buildings cover an area of approximately 3 acres of floor space, and can reasonably accommodate the requirements of five hundred cooperative students.

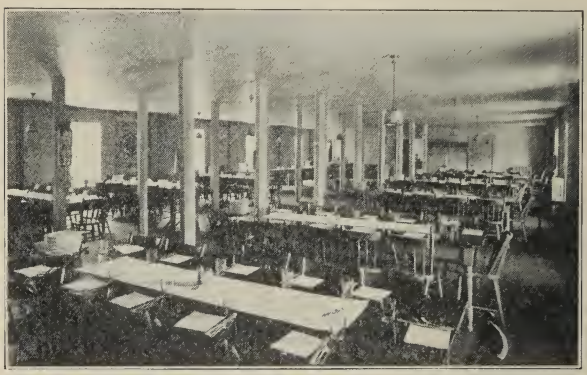
Antioch Hall is in the form of a cross, 170 feet long and 110 feet wide. It houses the chapel,

lecture rooms, library, laboratories, and recitation rooms. Here also is the gymnasium, measuring 73 feet by 46 feet, with a visitors' gallery running around the second floor. In the auditorium is a large stage, with dressing rooms adjoining. The executive offices of the College are in Antioch Hall.

The men's dormitory is of four stories and contains 91 rooms. The women's dormitory is of the same size, but containing 72 rooms. In the lower floor of the women's dormitory are the kitchens and the large College dining hall, appointed to seat 250 students.

The Horace Mann House, a brick building three stories high and containing fifteen rooms, adjoins the campus on the north.

Forming part of the College plant are ten modern houses, seven of which are of recent construction and located on the Faculty Lawn adjacent to the Mills House. These provide comfortable living



College Dining Hall

quarters for members of the administrative and teaching staff, and one is utilized as a practice house for students in household economics.

The College campus is excelled by few in the country, and its immediate environs are widely noted for their exceptional beauty and interest.

Adjoining the twenty-acre campus and forming a part of the College plant Dairy Farm is a beautiful tract of woodland, containing some seventy varieties of trees, many of which are more than a century old. Here there are two glens with limestone cliffs, a little lake formed by a dam, two small waterfalls, and many quiet woodland paths. A large spring and also a prehistoric mound are in this wood.

In the early years of Antioch, Horace Mann began the custom of an annual walk through the glens to Clifton. The scenery of the trip is of increasing beauty till the climax is reached in Clifton Gorge. This custom, known as the May Walk, is still observed.

LIBRARY AND READING ROOM

The College Library contains at present about fifteen thousand volumes, including standard reference works. The books in the Library are catalogued according to the system approved by the American Library Association.

In the reading rooms are current American and English journals, files of which are kept for reference.

About five thousand books have been added to the Library in recent years by the bequest of friends. The most important of these gifts are from the private library of Mr. Isaac Harris, of Massachusetts, including approximately one thousand volumes; the library of Mr. and Mrs. George Hill, of Denver, including three hundred volumes; and the library of Miss Rebecca Rice, in whose honor an alcove has been named, containing seventeen hundred volumes. The College is greatly indebted to Mr. Ellery Sedgwick, of the Atlantic Monthly, Mr. W. Lydbrand, of New York, Mr. George M. Verity, of Middletown, Ohio, and many others, for valuable additions to the Library during the past year.

LABORATORIES

The College is well supplied with laboratories for its science courses. In addition to the usual biological, physical, and chemical laboratories, and the public health laboratory, a room for psychological experiment, and a dark room available for optical and photographic work have been equipped. A gift of $2500.00 has just been received with which to provide the necessary apparatus for the public health laboratory in which students will have an excellent opportunity for research and experiment in industrial health problems. Radio receiving and broad-casting apparatus has been added to the equipment in the physics laboratory. Thus students interested in this recent development in electricity will have adequate facilities for investigation and practical instruction. An earth science laboratory, supplied with necessary apparatus and exhibits for astronomical, geological, and geographic work, is also available.

DESCRIPTION AND ASSIGNMENT OF ROOMS

There are three standard arrangements of rooms in both dormitories:

1. Room for one person, $2.50 per week.
2. Room for two persons, $1.50 per week each.
3. Suites of two bedrooms and connecting study, for four persons, $2.00 per week each.

Owing to the great demand for accommodations in the men's dormitory, no single rooms are available for Freshmen and Sophomore men.

Combined bed and study rooms are furnished with steam heat, electric light, hot and cold running water, single bed for each occupant, chairs, study table, chiffonier, sheets and pillow cases. Students must supply their own blankets and other bedding, and they may care to add couch covers, rugs, and curtains.

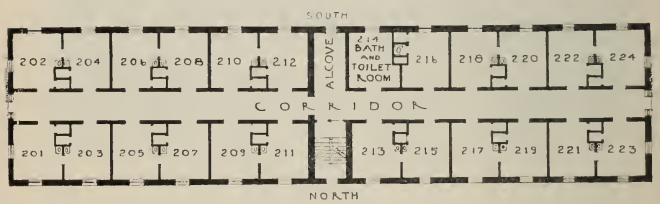
Provision is made on each floor for a study alcove, which is available for students who do not wish to study in their rooms. Electrical appliances are not allowed in the rooms, but an alcove in each dormitory is equipped for this purpose.

Students may re-engage their rooms from year to year. Rooms of new students are assigned by lot on August 15th. Application in order of preference should be made to the Bursar not later than August 15th.

The following table will be found useful in locating rooms:

Rooms 100 to 200 are on the first floor.
Rooms 200 to 300 are on the second floor.
Rooms 300 to 400 are on the third floor.
Rooms 400 to 500 are on the fourth floor.

The standard plan is as follows, although there are some variations:



Rooms 101 to 224, inclusive, in the girls' dormitory, are not available to students. The first floor is occupied by the College kitchen, the large dining room, and special dining rooms. The offices and rooms of the Women's Counsellor and the dormitory parlors occupy part of the second floor.

Room rent is ordinarily charged ten weeks in advance, but students can obtain credit for any five-week period by signing off at the Bursar's office three days in advance. No credit is allowed for less than a five-week period.

EXPENSES

The annual tuition for students during the year 1922-1923 on the cooperative plan is $200. For students on the full-time plan the charge is $300. In the case of cooperative students, tuition is payable $100 upon entrance, $50 at the beginning of the second semester, and $50 ten weeks later. For full-time students, the initial payment is $150 and

the two final payments are $75 each. Laboratory fees and board and room bills are payable in advance in four installments at the beginning of each five-week school period throughout the year.

Prizes, scholarships, fellowships, and loans are usually credited in two installments on the first-term bills coming due after their award.

The first-term bill must be paid before the student is admitted to classes. The amount of this bill is $165, tuition being $100, board $45, and room $20. A student not wishing to board or live at the College pays $100. Division B students are required to pay $50 tuition upon assignment to cooperative employment, and the remaining $50, together with board and room bills, on October 9th.

Laboratory fees are as follows, per semester: Chemistry, $5.00; Biology, $4.00; Physics, $3.00; Earth Science, $1.00; Psychology, $1.00.

The following is a suggested budget for the cooperative student for the freshman school year of ten months, based on accounts kept by both men and women during the year 1921-1922:

	Low	High
Tuition	$200	$200
Board at college $4.50 per week for twenty weeks	90	90
Single room $2.50 per week for twenty weeks		50
Double room $1.50 per week for twenty weeks (including heat, light, furniture, and bed linen)	30	
Average for work period away from college; board and room $7.00 to $10.00 per week for twenty-two weeks	154	220
Books, laboratory fees and breakage	36	100
Clothes	75	150
Incidentals	75	200
Total Expense	$660	$1010

WARDROBE

Antioch favors neatness, simplicity and economy in matters of clothing and personal appearance. However, no definite regulations are made. Besides school suits, students should bring work clothes, heavy boots and other garments for outdoor sports.

STUDENT INCOME

The income derived by students from their cooperative work is variable and depends on their capability and adaptability, and upon industrial conditions. The minimum has been about $350 for freshmen during the past year, and the maximum for seniors $800. A young man or woman who does supervised work for half time for six years, at the same time gaining a technical knowledge of the industry at College, and also gaining

a broad cultural foundation, has a valuable preparation for economic independence. As students gain in maturity and responsibility through their college courses, they will take more and more economic responsibility. Some have already become small proprietors on their own account while still in college. Some are gaining experience which will fit them for responsible positions in retail selling, manufacturing, etc. The average earnings during the past year have been about as follows, but they depend so much upon the industrial conditions of the country and upon the individual capability of the student, that no guarantee can be given any student with respect to his income.

Year at Antioch	Total yearly income including work for full summer vacation
Freshman	$350
Sophomore	500
Sub-Junior	600
Junior	700
Sub-Senior	750
Senior	800

The very disturbed industrial conditions of the past year have of course affected the opportunities for all students. Conditions are slowly improving, however, so that the figures given above may be taken as a reasonable basis for a student in making up his budget.

Faculty Residences

RELIGIOUS LIFE

While Antioch College is an undenominational institution, the religious life of the college community is a vital factor.

The Antioch Religious Union, an organization of students and faculty members, has as its function the fostering of all that is best and highest in moral character and the promotion of religious thought. Free discussion of religious problems, developments, and history takes place at weekly meetings at which prominent speakers are often invited to address the Union. Students are urged to attend

the churches of their particular choice in Springfield, Xenia, Dayton, or elsewhere and vesper services are held each Sunday at the College under the auspices of the Union, at which ministers of all denominations are invited to speak.

STUDENT ACTIVITIES

Student Government — The participation of students in the government of the College furnishes a valuable experience in social relations. At the beginning of the year 1921-1922 twelve students were appointed by the faculty to interest the student body in developing a plan for student government. As shown in the accompanying organization chart, the form of government inaugurated after consideration of many types is the so-called "Corporate Plan." In it the students have functions similar to those of stockholders of a corporation. They elect a Student Council, or board of directors, composed of class representatives; and the various officers, including a manager and assistant manager. The alternating divisions, A and B, have entirely separate organizations, except that the vice-president and assistant manager are members of Division C, which is made up of full-time students who are in the college throughout the year, and who help to coordinate the working of the dual system.

The Student Council controls matters pertaining to the student body in general, with committees, similar to the departments of a corporation, in charge of various activities. The committees are responsible to the manager and are appointed by him in conference with the president.

The Women's Conference, elected by the girls, has worked out simple rules for the residents of the girls' dormitory. The Men's Conference, instead of rules, has set forth standards of conduct to aid in the development of the qualities which are demanded of Antioch students for admission to the College.

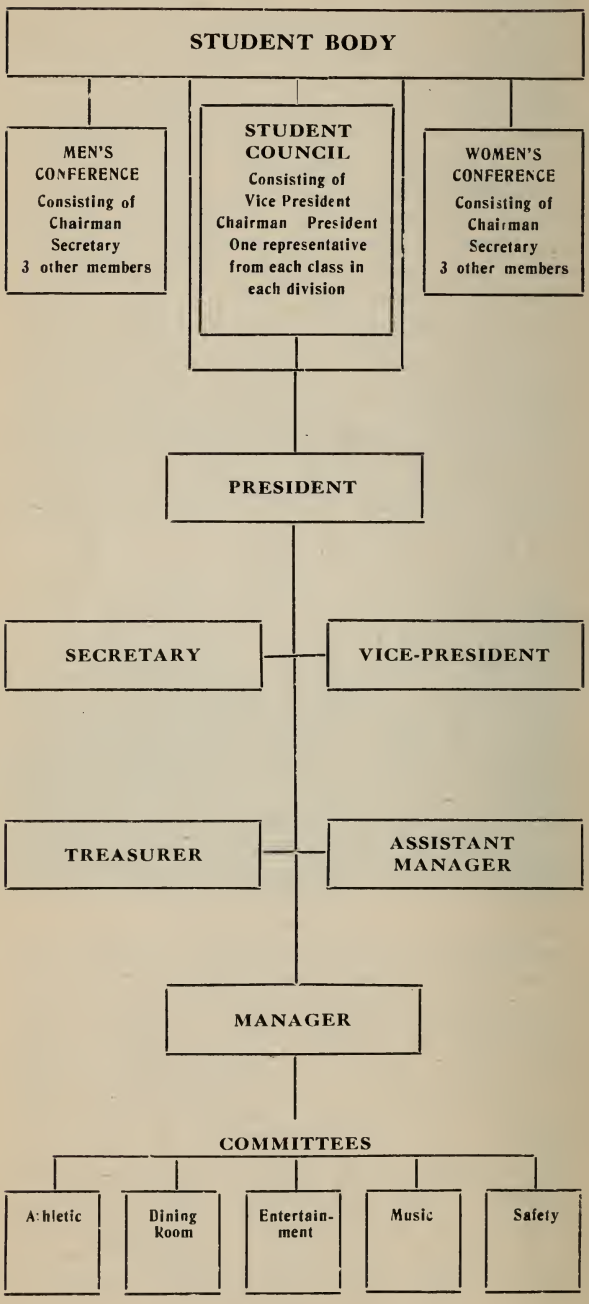
Athletics—The athletic activities of the College are conducted under the direction of the Antioch Athletic Association, to the membership of which all students are eligible. The gymnasium, called Kelly Hall, in the main building provides a large and excellent floor for indoor sports. On the campus are a baseball and football field and tennis courts.

The interests of the Athletic Association include baseball, football, basket ball, track, and tennis. All meets are regulated by the Association, and in the spring of each year it awards letters to those who have played the necessary number of games on the various College teams.

Associated Students of Antioch College

Organization Chart

1922-1923



Antioch Loan Association — Competent and trustworthy students have an opportunity to borrow money for college expenses on a strictly business basis from the Antioch Loan Fund by becoming members of the Antioch Loan Association. The funds are loaned only to members of the Loan Association upon recommendation by its executive committee. All members of the Association are liable within definite limits for the unpaid debts of any member as determined by the Trustees of the fund. The fund is therefore protected by the group responsibility of these picked students.

If any student, having been admitted to Antioch, can finance himself for the first half year and then convince his mates that he is a good financial risk, there is no need for any such person to lose his college training for financial reasons.

The acquaintance and mutual interests of members of the Antioch Loan Association promise to be the basis for friendly and business contacts that will last through life. For that reason students become members who have no personal need for financial assistance.

The Loan Association is also building up a supply of text books to be loaned to students.

The Radio Club — The Antioch Radio Club was organized in March, 1922, with a membership of thirty-nine and a sum of money sufficient to purchase radio receiving equipment, making it possible to set up and operate a first class receiving station. A magna-vox or "loud speaker" is used to transmit to college audiences the concerts, speeches, and reports that are broadcasted everywhere in the United States. During the coming year equipment will be available under the direction of the Department of Physics to undertake broadcasting.

The Antioch Club of Dayton — The students who perform their cooperative work in Dayton early realized that a great need would be met if arrangements could be made for living together. This was accomplished by the formation of a club which rented a house at 526 W. First St., and actively commenced housekeeping. The responsibility for the management of the club rests largely with the members and its success is due to their initiative, though friends in Dayton have contributed generously to make the house comfortable and homelike. A larger and more convenient home has been leased at 102 Sunset Avenue to care for the increasing number of students engaged in cooperative work in Dayton next year. Similar arrangements will soon be necessary in Springfield

and perhaps other cities in the Miami Valley, and for women students in Dayton.

The policy of the club is primarily to provide a wholesome and economical place in which to live. Room and two meals a day cost the members $6.50 a week. There are usually from twenty-five to thirty boys in residence, while the student who wishes to spend the night in Dayton can always find a bed and welcome there.

The College Paper — For years the students have published "The Antiochian." Continued last year with its original name and form, it has been expanded into a twenty-page magazine. Because of the groups alternating between work and study, it is necessary to have two distinct editorial and management staffs, with occasional joint meetings to discuss future development and to secure uniformity of policy. An attempt has been made to depart from the conventional college paper. The life of Antioch is portrayed, but articles of interest to the outsider are included, such as an industrial and technical department and a department of "progressive" education.

In the near future it is hoped to print the paper in our own printing establishment, operating as an Antioch industry.

The Dramatic Association — The Antioch Dramatic Association was organized in the early part of October, 1921. Thus far efforts have been confined to the presentation of a series of one-act plays at the termination of each five-week period of residence in college. The plays have been selected and presented by students themselves with practically no outside assistance. Members of the association have designed, built and painted all the scenery that has so far been required.

Plays presented during the year included:

The People—Susan Glaspell.
Tickless Time—Susan Glaspell.
The Lost Silk Hat—Dunsany.
Tradition—Middleton.
The Best Man—Eleanor Maude Crane.
Fame and the Poet—Dunsany.
The Will—Barry.
Enter the Hero—Susan Glaspell.
The Angel Intrudes—Floyd Dell.
The Odd Streak—Roland Pertwee.
Food—William de Mille.

RHODES SCHOLARSHIPS

Men who have completed two years in an American college are eligible to compete for the Cecil Rhodes Scholarship tenable for three years at Ox-

ford University, England, with a stipend of $1,500 each year, and for the present, a further bonus of $250. These scholarships are awarded on the combined basis of character, scholarship, athletics, and leadership in extra-curriculum activities. Further information may be obtained from the chairman of the Rhodes Scholarship Committee of Selection for Ohio, Professor Leigh Alexander, Oberlin College, Oberlin, Ohio, or from Professor H. B. English, of Antioch College, a former Rhodes scholar. Applications must be filed at end of the first collegiate year.

ANTIOCH INDUSTRIAL SERVICE

Antioch offers to industries within reasonable distance of Yellow Springs, the consulting service of a resident organization of specialists in the following fields of research and practice:

Industrial Relations.
Library and Office Organization.
Auditing and Accounting.
Industrial and Public Health.
Architecture.
Civil Engineering.
Educational Administration.
Institutional Management.

The directors of these branches of Antioch Industrial Service are men and women with years of practical experience, who have been selected because of proved ability in their respective fields.

Such service offers many advantages. The resident consultant gradually becomes acquainted with his clients to a degree impossible for the casual consultant. He can correct the little things that are unimportant in themselves, but which in the aggregate prevent the smooth operation of an organization. He can work through existing channels both as to conditions and personnel without a serious break in the established order, and at the same time can thoroughly prepare the way for the more extensive work which may later prove desirable. Many good ideas in industrial organization go wrong because they are administered in too large doses and without adequate preparation.

In such an organization, the industry gains the great advantage of expert knowledge on allied problems which the individual consultants can readily obtain through the close cooperation with each other on the Antioch staff.

Furthermore, Antioch Industrial Service is in a position to carry through to satisfactory completion work which is initiated, rather than to leave to the industry the difficult task of putting good theory into actual practice.

This consulting service is available on short notice

either in whole or in part, according to the needs and desires of clients. The knowledge of local conditions and acquaintance with personnel, which a resident organization establishes, has a cumulative value not to be overlooked. Furthermore, the cost of such service is materially lessened by absence of heavy traveling and maintenance charges.

The close contact between Antioch College and the industries of the Miami Valley, which Antioch Industrial Service offers, has valuable mutual advantages. About three hundred cooperative college students are employed by these industries during the year. Through follow-up of students at work and association with them in the classroom, Antioch consultants gain the advantage of an acquaintance with the general policies and industrial practice of cooperating industries, which cannot fail to be of value in their consulting work. On the other hand, the high standard of the instruction in industrial organization and administration given by these consultants as members of the Antioch College faculty, is maintained by continued close contact with current industrial problems and general business conditions.

Antioch Industrial Service should not be confused with that feature of the Antioch Plan which provides for cooperative part time employment of College students in industry. The organization aims to offer the highest possible type of consulting service on industrial problems. The responsibility of maintaining this standard rests upon the directors and assistant directors of its various branches. It is true, however, that in the execution of the plans of this service, there is a certain amount of work on which students may be employed if properly qualified by ability and experience.

THE ANTIOCH SCHOOL

The Antioch school is a boarding and day school for boys and girls from kindergarten to college entrance. Together with Antioch College, it furnishes a completely integrated plan of education from the earliest school years. The school is a model and demonstration laboratory for Antioch students in education where, under the careful direction and supervision of trained teachers, they find facilities for training, research and investigation. Furthermore, it affords excellent educational facilities for children of the community as day pupils, particularly children of faculty members. Attractive living quarters for boys and for girls, with suitable leaders in charge of each, are available for boarding pupils. The school program is organized about the twenty-four hour day of the boarding departments. This means that many activities of home and farm, having valuable prac-

tical, scientific, and social implications, arise very naturally from the normal routine. The children all share in the responsibilities of conducting the business of the school's daily life according to their maturity and attitudes. The constant objectives are health, responsibility in freedom, scholarship. Sharing in the daily duties of the school home, with simple routine, wholesome associates and surroundings, and in a scholarly atmosphere, children have the best possible environment for developing sound bodies, useful minds, and normal social relations.

The special bulletin of the Antioch School, with full information regarding living conditions, equipment, courses of study, rates, etc., may be obtained by addressing the Director of the Antioch School, Yellow Springs, Ohio.

REGISTER OF STUDENTS—1921-1922

GRADUATE STUDENTS

Bellamy, Laura .....Cleveland, Ohio
Corry, Howard .....Yellow Springs, Ohio
Gow, Dorothy .....Newton Centre, Mass.

SENIORS

Brubaker, Leroy D. .....Van Wert, Ohio
Hughes, Esther .....Yellow Springs, Ohio
Light, Nathan .....Essexville, Mich.
Northup, Dwight .....Yellow Springs, Ohio
Northup, Lynn .....Yellow Springs, Ohio
Wallace, Benjamin H. .....Yellow Springs, Ohio

SUB-SENIORS

Brophy, Joseph .....Denver, Colo.
Casterline, David .....Dayton, Ohio
High, Leo .....Ohio City, Ohio
Mogenson, Walter A. .....Racine, Wis.
Ralston, Wilimine .....Yellow Springs, Ohio
Richardson, Marion .....New Weston, Ohio
Wardman, William E. .....Superior, Wis.
Welch, Kenneth .....Yellow Springs, Ohio

JUNIORS

Allen, Ruth Ellen .....Dayton, Ohio
Corry, Willis .....Yellow Springs, Ohio
Davis, Warren Ross .....Garretsville, Ohio
Dawson, Helen .....Coshocton, Ohio
Dibble, Edwin A., Jr. .....Hillsdale, Mich.
Ekholm, Cecil .....Superior, Wis.
Henry, William Patrick .....Quincy, Fla.
Holmes, Jesse Herman .....Swarthmore, Pa.
Jewett, Dorothy .....Dayton, Ohio
John, Howard B. .....Dayton, Ohio
McGee, Orum .....Ohio City, Ohio
Meredith, Clark .....Yellow Springs, Ohio
Muneke, Harry .....Lincoln, Nebr.
Newhouse, Joseph A. .....Seattle, Wash.
Safford, Helen .....Detroit, Mich.
Safford, Mildred .....Detroit, Mich.
Trout, Willard K. .....Aurora, Ill.
Vannorsdall, Gail .....Xenia, Ohio
Welch, Florence .....Yellow Springs, Ohio
Wilkerson, Warren .....Milton, Iowa

SUB-JUNIORS

Adams, Hurl .....Yellow Springs, Ohio
Corry, Esther .....Yellow Springs, Ohio
Davisson, William A. .....Huntsville, Ohio
Drake, Marie J. .....Springfield, Ohio
Eade, Mildred .....Columbus, Ohio
Edison, Austin G. .....Kankakee, Illinois
Esther, Windsor .....Lebanon, Missouri
Fleeman, Frederick .....Springfield, Ohio
Funderburgh, Merle .....Yellow Springs, Ohio
Gleason, Roger .....Seattle, Wash.
Hole, Grace E. .....Dayton, Ohio
Niswonger, Paul .....Dayton, Ohio
Noble, Clara (Deceased) .....Dayton, Ohio
Pabst, Robert .....Hamilton, Ohio
Zolg, Arthur .....Dayton, Ohio

SOPHOMORES

Beggs, John E. .....Columbus, Ohio
Compton, Wilma .....Coshocton, Ohio
Davis, Franklin P. .....Garretsville, Ohio
Jones, Robert H. .....Dayton, Ohio
Kitchen, William .....Dayton, Ohio
Orelup, Fred .....Aurora, Ill.
Rothrock, Arthur .....Washington C. H., Ohio
Safford, Truman .....Detroit, Mich.
Server, Chas. M. .....West Carrollton, Ohio
Seybold, Oden K. .....Trotwood, Ohio
Shank, Hubert .....Dayton, Ohio
Shelley, Margaret .....Xenia, Ohio
Stone, George .....Columbus, Ohio
Sussman, Esther B. .....Dayton, Ohio
Topp, Herman F. .....Cincinnati, Ohio

FRESHMEN

Ames, Homer .....Dayton, Ohio
Anderson, Courtney .....Jamestown, N. Y.
Ater, Harry F. .....Xenia, Ohio
Ater, Lois .....Xenia, Ohio
Baldwin, Ralph .....Dayton, Ohio
Barton, Roger .....Troy, Ohio
Barnard, Monroe .....New York City, N. Y.
Beam, Chas. Nevin .....Dayton, Ohio
Bissikumer, Ford .....Dunkirk, N. Y.
Blackburn, Howard .....Dayton, Ohio
Blecha, Emma .....Bottineau, N. D.
Bozovsky, Vacil .....Dunkirk, N. Y.
Brackett, Naomi .....Bristol, Conn.
Bratton, Willard .....Dayton, Ohio
Brewster, Stanley .....Syracuse, N. Y.
Brownell, Barnard .....New Brighton, Staten Island, N. Y.
Bryant, Selwyn, P. .....Terre Haute, Ind.
Burt, Melvin .....Peekskill, N. Y.
Chandler, Carroll .....Woodsville, N. H.

Chapple, Bennett .....Middletown, Ohio
Clegg, Harriet .....Dayton, Ohio
Clymer, Kinsey .....Philadelphia, Pa.
Collier, Harold .....Westerville, Ohio
Conrow, Barbara .....Cream Ridge, N. J.
Cook, Reginald S. .....Brantford, Canada
Corry, Lucille .....Yellow Springs, Ohio
Cox, Kenneth .....Mason, Ohio
Crawford, F. H. .....Horton, Kans.
Crew, Dorothy .....Dayton, Ohio
Davidson, Wm. J. .....Xenia, Ohio
Davis, Ruth .....Celina, Ohio
Davitt, Daniel .....Newark, N. J.
Dawson, Clyde .....Yellow Springs, Ohio
Dawson, Merril .....Yellow Springs, Ohio
Day, Joseph P., Jr. .....New York City, N. Y.
Dennison, Elizabeth .....Framingham, Mass.
Dennison, Helen .....Framingham, Mass.
Dewey, Sabino .....New York City, N. Y.
Dickinsheets, Robert .....Dayton, Ohio
Drake, J. E., Jr. .....Yellow Springs, Ohio
Drivness, Franklin J. .....Winona, Minn.
Duff, Gerald B. .....Dayton, Ohio
Dunning, Rebekah .....Concord, Mass.
Edginton, Arthur .....Spring Valley, Ohio
Ellis, M. H. .....Tallahassee, Fla.
Emerson, Burton .....Lansevoort, N. Y.
Evans, Violet .....Dayton, Ohio
Eyre, Arthur C. .....Springfield, Ohio
Fisher, Geo. J. .....Eaton, Ohio
Fuchs, Leslie .....Newark, N. J.
Funk, Robert .....Dayton, Ohio
Goepp, Katharine .....Philadelphia, Pa.
Gordon, Calmer .....Springfield, Ohio
Graham, Robert .....Dayton, Ohio
Graves, Chester .....Stamford, Conn.
Green, Jack .....Dayton, Ohio
Hachtel, Edward .....Detroit, Mich.
Haerlin, Eugene .....Dayton, Ohio
Hardman, Della .....Yellow Springs, Ohio
Harmon, Herbert E. .....Springfield, Ohio
Harris, Homer .....Dayton, Ohio
Hartley, Grayce .....Dayton, Ohio
Haskell, Chas. .....Pittsfield, Ill.
Haswell, Anthony .....Dayton, Ohio
Heidt, Harry .....Covington, Ky.
Henderson, Ernest M. .....Davenport, Iowa
Henry, Robert .....Dayton, Ohio
Herman, James .....Dayton, Ohio
Hill, Roszell .....Dayton, Ohio
Hills, William Gordon .....Jamestown, N. Y.
Hoffman, Chas. E. .....Dayton, Ohio
Holt, Arthur Blake .....Waynesville, Ohio
Huber, Robert K. .....Dayton, Ohio
Hunter, Jack .....Oklahoma City, Okla.
Hunter, Victor .....Oklahoma City, Okla.

Huston, Robert .....Dayton, Ohio
Johnson, Theron C. .....Columbus, Wis.
Light, Jerome .....Dayton, Ohio
Maffet, Richard .....Gettysburg, Ohio
Marquart, Leonard .....Dayton, Ohio
McConnaughey, David .....Dayton, Ohio
Mead, Cyrus III .....Vandalia, Ohio
Miller, Wm. Ross .....Arcanum, Ohio
Millican, Lawton .....Rockwood, Tenn.
Mortensen, Fred .....Middletown, Calif.
Naslund, Edwin .....Dunkirk, N. Y.
Nelson, Gerald .....Dayton, Ohio
Osborne, Lester .....Margie, Minn.
Owen, Gwladys .....Dayton, Ohio
Owings, George .....Dayton, Ohio
Pearce, Harriet D. .....Gloucester, Mass.
Penrose, Joseph .....Neshaminy, Pa.
Person, Eleanor .....Swarthmore, Pa.
Peterson, Russel J. .....Dayton, Ohio
Plattenburg, Clifton .....Dayton, Ohio
Price, Gayle .....Grand Rapids, Mich.
Pyle, Denzil .....Troy, Ohio
Ralls, Robert .....Xenia, Ohio
Ramey, George B. .....Spring Hill, Kans.
Reel, Frederick .....Dayton, Ohio
Reinholt, Chas. .....Buffalo, N. Y.
Reynolds, Francis .....Lancaster, Pa.
Ross, Wm. A. .....Richmond, Ind.
Routzohn, Norman .....Dayton, Ohio
Rubenstein, David .....Chicago, Ill.
Saville, Gordon .....Berkley, Calif.
Schantz, Adam .....Dayton, Ohio
Sheats, Glen D. .....Dayton, Ohio
Shumway, Robert .....Hartford, Wis.
Smith, Edmund Ware .....Framingham, Mass.
Spear, Craig .....St. Paul, Minn.
Stolz, Richard .....Dayton, Ohio
Stone, Roger .....Kirkland, Texas
Straker, Robert .....Troy, Ohio
Stump, Ralph B. .....Clinton, Ohio
Sutton, Bernard .....Yellow Springs, Ohio
Switzer, Glidden .....DeKalb, Ill.
Swonguer, Herman .....Wapakoneta, Ohio
Tate, Geo. B. .....Dayton, Ohio
Taylor, George .....Buffalo, N. Y.
Teele, Stanley .....Hudson, Mass.
Veiller, A. de Wolfe .....New York City, N. Y.
Waite, Henry .....St. Cloud, Minn.
Ward, Thomas Clifton .....Marlin, Texas
Weber, Lee .....Brookline, Mass.
Weiss, Kenneth (Deceased) ....Yellow Springs, Ohio
Weston, Burns .....Yellow Springs, Ohio
Whitaker, Norman .....Hamilton, Ohio
Wilcock, George .....Dayton, Ohio
Wilson, Ernest .....Elk City, Okla.
Wright, Chas. P. .....Deerfield, Mass.

SPECIAL STUDENTS

Fritz, Anna J. .....Cincinnati, Ohio
Harvey, Harold P. .....Middletown, Ohio
Lewis, John Fletcher .....Dayton, Ohio
Nybladh, Carl O. .....Xenia, Ohio
Smalley, A. K. .....Dayton, Ohio
Winters, Mrs. Helen .....Dayton, Ohio

ENROLLMENT—1922-1923

	Men	Women	Total
Graduate Students	1	2	3
Seniors	5	1	6
Sub-Seniors	7	1	8
Juniors	14	6	20
Sub-Juniors	9	6	15
Sophomores	12	3	15
Freshmen	113	18	131
Special Students	3	2	5
Total Registration	164	39	203

THE LIBRARY OF THE
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UNIVERSITY OF ILLINOIS

CALENDAR 1922-1923

Co-operative students will be arranged in two sections, designated as "Division A" and "Division B." The calendar indicates the period when each division will be at school, at work, and on vacation. "Division C" students take college studies with both divisions. All dates are inclusive.

SCHOOL	VACATION	INDUSTRY
All school periods of five weeks		Work periods of five weeks except where noted
Division A—September 5 to October 7		Division B—September 5 to October 7
Division B—October 9 to November 11		Division A—October 9 to November 11
Division A—November 13 to December 16 (End of first semester)	November 30 Division A—December 18 to 23 Division B—December 25 to January 1	Division B—November 13 to December 23 (6 weeks)
Division B—January 2 to February 3 (End of first semester)		Division A—December 26 to February 3 (6 weeks)
Division A—February 5 to March 10	February 22 Division B—April 13 to 15 Division A—April 15 to 17	Division B—February 5 to March 10
Division B—March 12 to April 12		Division A—March 12 to April 14
Division A—April 12 to May 19		Division B—April 16 to May 19
Division B—May 21 to June 23	May 30	Division A—May 21 to June 23

June 25 to September 3—Vacation from school for both divisions, except that each student of a pair must work half his vacation with the industry unless special arrangement is made for one student of a pair to work with the industry throughout the summer.

UNIVERSITY OF ILLINOIS-URBANA
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